

PS-LX4



*US Model
Canadian Model
AEP Model
UK Model
E Model*

STEREO TURNTABLE SYSTEM

SPECIFICATIONS

GENERAL


Power Requirements: 120V ac, 60Hz (US, Canadian model)
220V ac, 50/60 Hz (AEP model)
240V ac, 50/60 Hz (UK model)
110-120 or 220-240V ac adjustable, 50/60Hz (E model)

Power Consumption: 8W


Dimensions: Approx. 430(w) x 105(h) x 355(d) mm
17(w) x 4¼(h) x 14(d) inches
including projecting parts and controls

Weight: Approx. 6.0kg (13 lbs 4 oz), net
Approx. 7.3kg (16 lbs 1 oz), in shipping carton

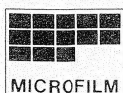
SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK  ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET UNE MARQUE  SUR LES DIAGRAMMES SCHÉMATIQUES, LES VUES EXPLOSÉES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

— Continued on next page —



SONY[®]

SERVICE MANUAL

TURNTABLE

Platter:	31cm (12 $\frac{1}{4}$ "), aluminum-alloy diecast
Motor:	Linear torque BSL (brushless and slotless) motor
Drive System:	Direct drive
Control System:	Quartz-lock control, magnedisc-servo control system
Speed:	33 $\frac{1}{3}$ rpm, 45 rpm
Starting Characteristics:	Comes to nominal speed within a half revolution (33 $\frac{1}{3}$ rpm)
Wow and Flutter:	0.02% (WRMS)* 0.025% (WRMS) ±0.04% (DIN)
Signal-to-Noise Ratio:	78dB (DIN-B)
Load Characteristics:	0% up to 100g stylus force (at lead-in groove of a record)

TONEARM

Type:	Statically balanced
Pivot-to-Stylus Length:	216.5mm (8 $\frac{5}{8}$ in.)
Overhang:	16.5mm (2 $\frac{1}{32}$ in.)
Stylus-force Adjustment Range:	0 – 3g
Cartridge Weight Range:	(including a cartridge shell) 7.4 – 11.7g

CARTRIDGE XL-200 (AEP, UK, E model)

Type:	Moving magnet type
Frequency Response:	10Hz to 30kHz
Channel Separation:	25dB at 1kHz
Output Voltage:	3mV at 1kHz, 5cm/sec.
Load Impedance:	50 to 100k Ω
Tracking Force:	1 to 2g (1.5g recommended)
Stylus:	Sony ND-200G (Conical 0.6 mil diamond)
Weight:	8.2g

While the information given is correct at the time of printing, small production changes in the course of our company's policy of improvement through research and design might not necessarily be indicated in the specifications. We would ask you to check with your appointed Sony dealer if clarification on any point is required.

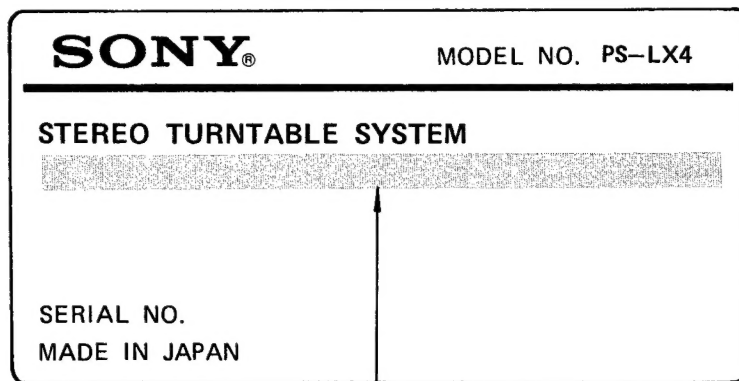
Note

Appliance conforms with EEC Directive 76/889 regarding interference suppression.

* This new measuring method concerns only the turntable assembly, including the platter. It excludes wow and flutter caused by the tonearm, the cartridge, or the record. Measured by obtaining signal from magnetic pick up head.

MODEL IDENTIFICATION

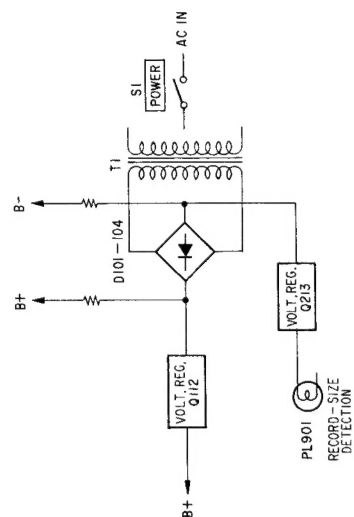
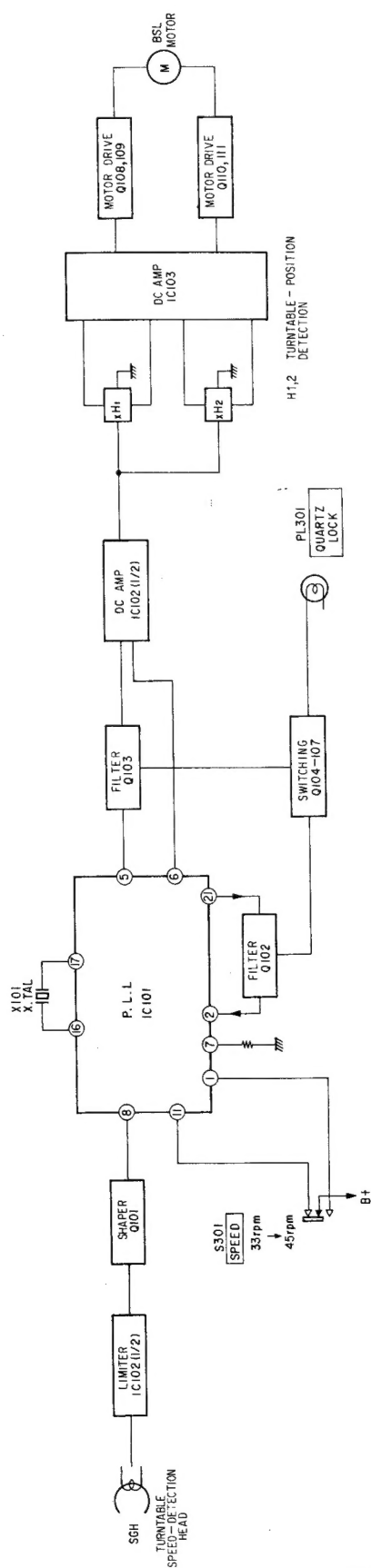
— Specification Label —



US, Canadian model:	AC: 120V 60Hz 8W
AEP model:	AC: 220V ~ 50/60Hz 8W
UK model:	AC: 240V ~ 50/60Hz 8W
E model:	AC: 110-120, 220-240V ~ 50/60Hz 8W

SECTION 1 OUTLINE

BLOCK DIAGRAM



SECTION 2 DISASSEMBLY

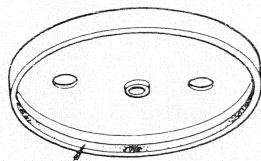
Note:

- Follow the disassembly procedure in the numerical order given.
- Be sure to note the parts placements/positionings of each other before disassembling them apart.
- Be sure to note the burred side of the washers and retaining rings with bur.

NOTES ON REPAIRING

TURNTABLE HANDLING

Bottom view of turntable



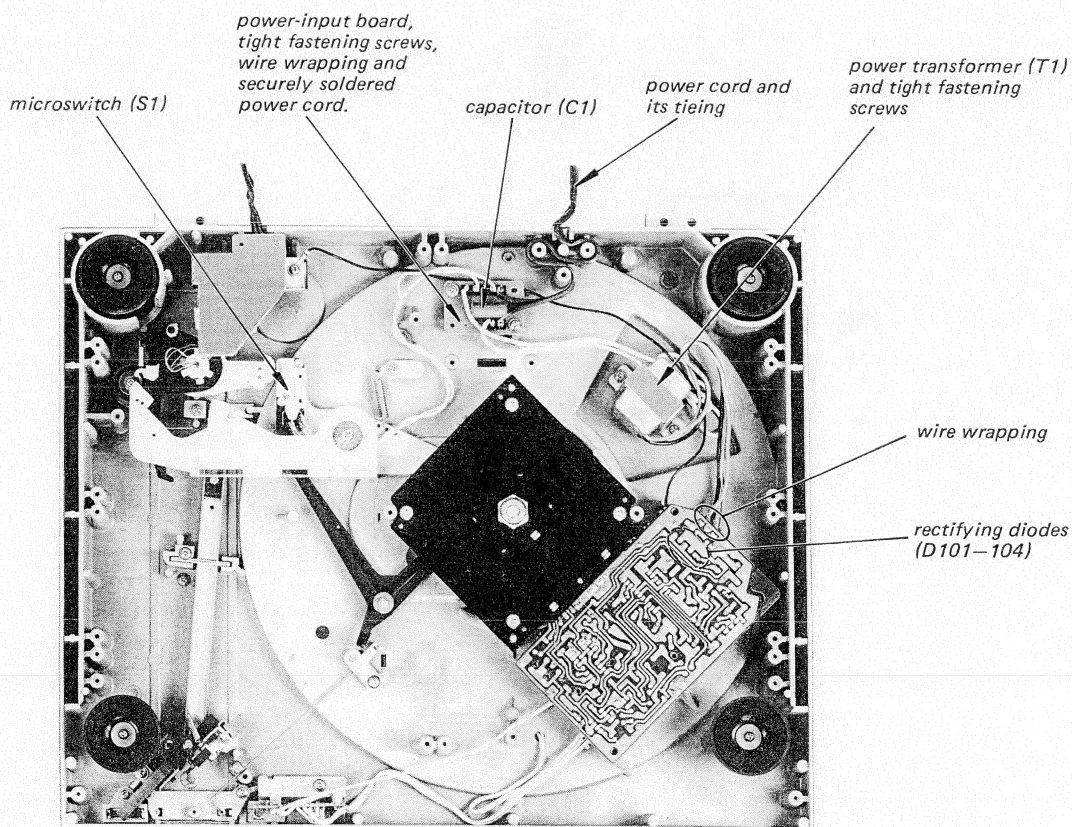
Be sure not to spoil the magnetic coating (dark brown color).

CARTRIDGE INSTALLATION

Refer to the instruction manual for the proper cartridge installation.

SAFTY-RELATED PARTS

Precisely perform a proper operation when replacing or re-wiring the following safety-related parts.

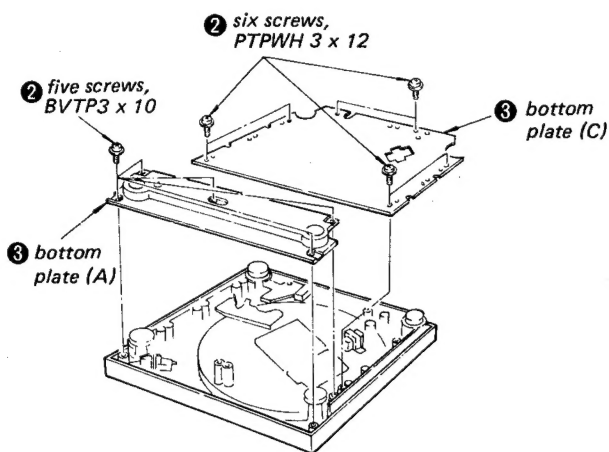


Note:

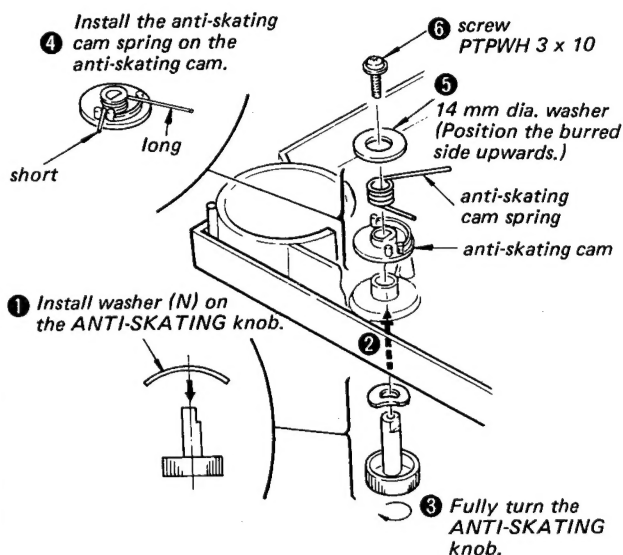
- Follow the disassembly procedure in the numerical order given.
- Be sure to note the parts placements/positionings of each other before disassembling them part.

BOTTOM PLATES (A) AND (C)

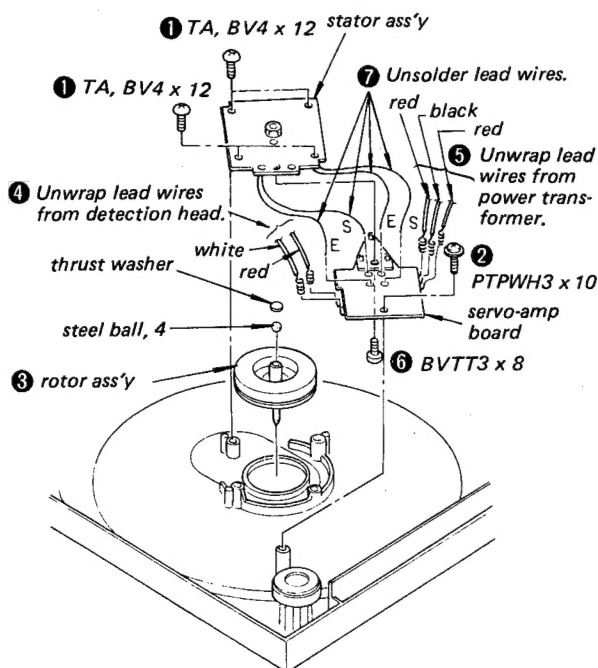
- 1 Remove rubber mat and turntable.



ANTI-SKATING KNOB INSTALLATION



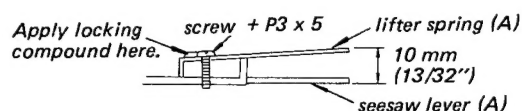
SERVO AMP, STATOR ASS'Y AND ROTOR ASS'Y



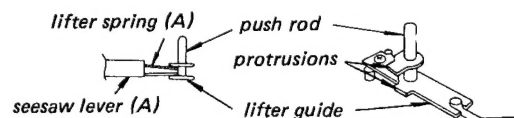
Note: Refer to mounting diagram when resoldering the stator-coil lead wires.

SEESAW LEVER (A) INSTALLATION

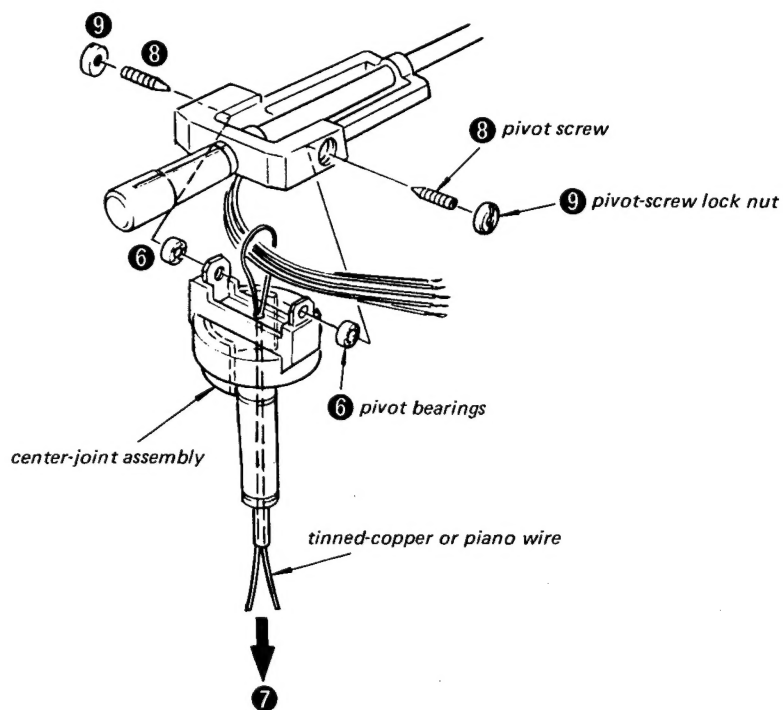
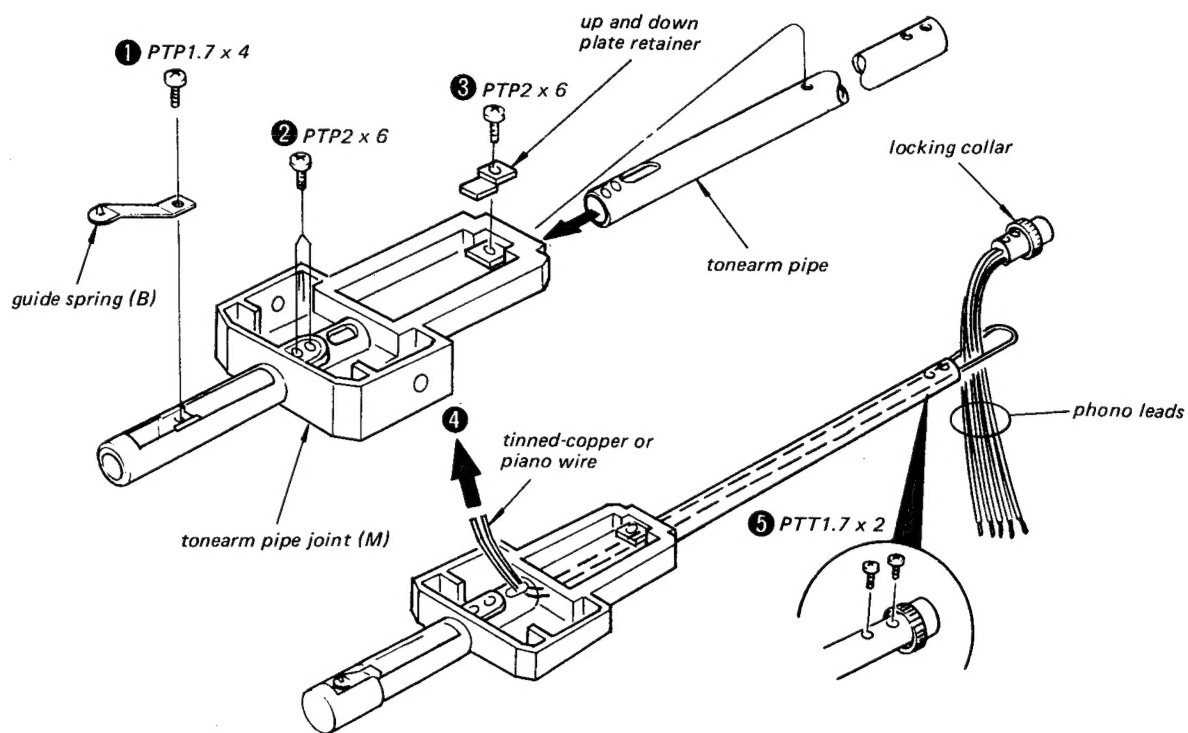
Install the lifter spring (A) and adjust the screw position so that the spacing between the lifter spring (A) and seesaw lever (A) at their ends becomes 10 mm ($13/32$ ").



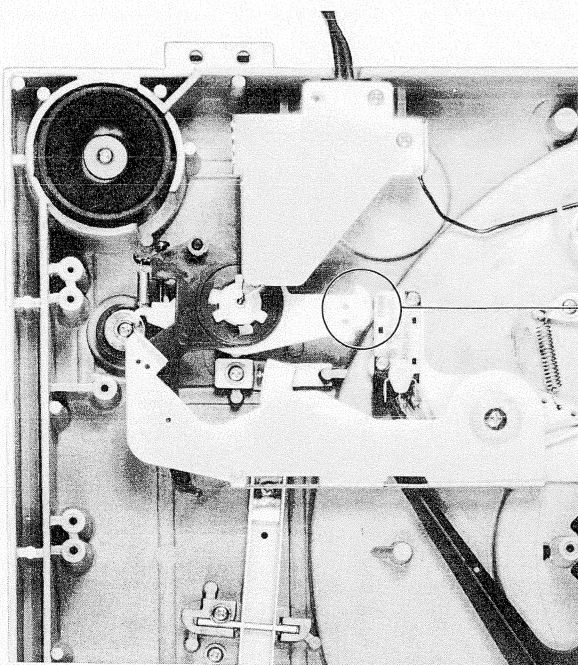
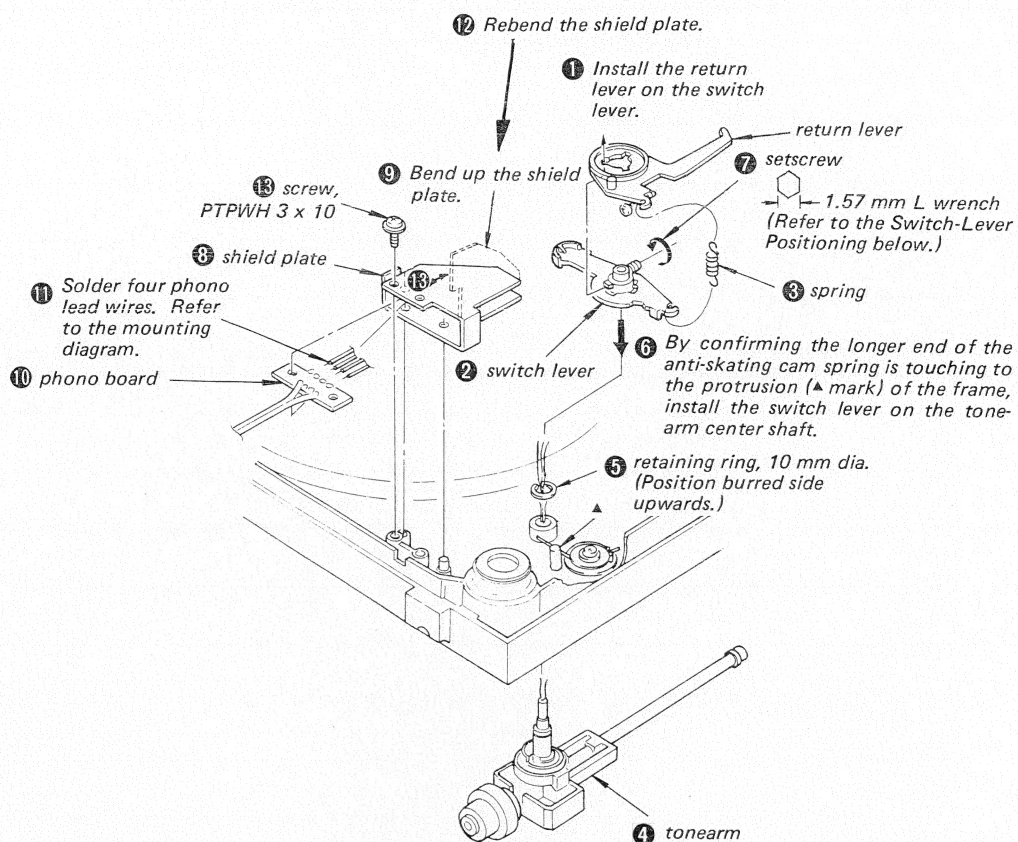
By bending the lifter spring (A), install both ends of the spring and lever in the protrusions of the lifter guide as shown below, and then fasten the lifter-lever shaft in the frame groove using a self-tapping screw, M3 x 10.



ASSEMBLING THE TONEARM

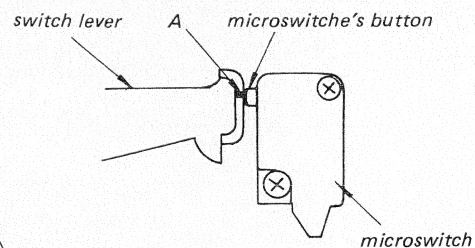


TONEARM INSTALLATION



Switch-Lever Positioning:

1. Place the tonearm on the tonearm rest.
2. Position the drive gear to the rest mode.
3. Position the part A of the switch lever in line with the switch button and tighten the set screw securely.



MEMO

Handwriting practice area with horizontal lines.

SECTION 3 ADJUSTMENTS

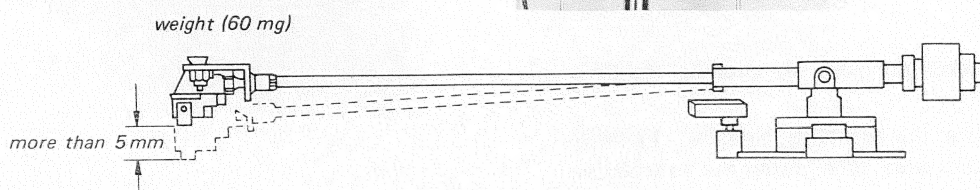
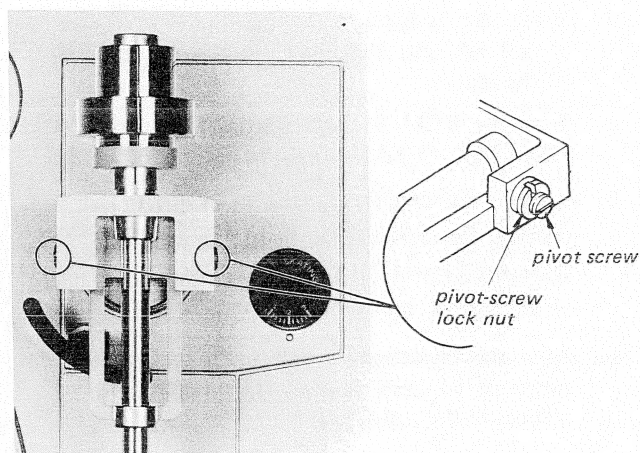
3-1. MECHANICAL ADJUSTMENTS

Note: Before performing the adjustments, make a proper stylus-force setting in accordance with a cartridge used.

Longitudinal Sensitivity Adjustment

1. Make the longitudinal balance adjustment of tonearm.
2. Repeating the following procedures, adjust the pivot screws and the lock nuts.
 - a. When the 60 mg weight is placed on the top of the shell, the tonearm sinks more than 5 mm ($\frac{3}{16}$ ") measured at stylus-tip.
 - b. When the weight is removed, the tonearm returns horizontally.

Note: Adjust screws so that they protrude in the same amount.

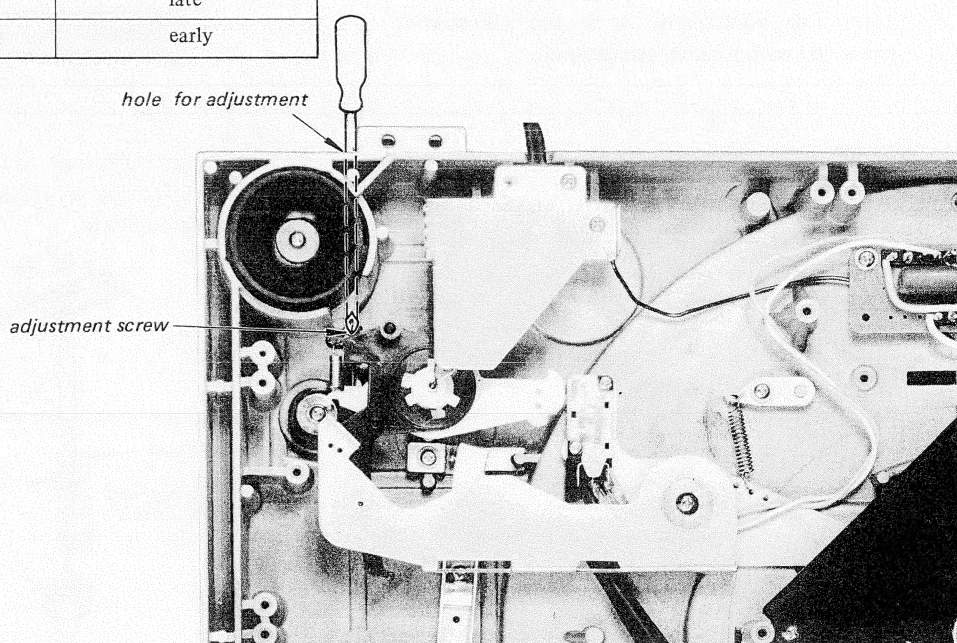


Automatic Return Position Adjustment

1. Reject the tonearm by REJECT button.
2. Bring the tonearm to the automatic-return test groove (inside portion) of the test record (YFSC-16), and adjust the screw for making the tonearm return at count 3 to 13.

Note: The normal auto-return position is between 59 mm ($2\frac{3}{8}$ ") and 64 mm ($2\frac{1}{2}$ ") from the center of the center shaft.

Turning direction	Automatic return
clockwise	late
counterclockwise	early



Tonearm Height Adjustment

Note: Perform both adjustments A) and B).

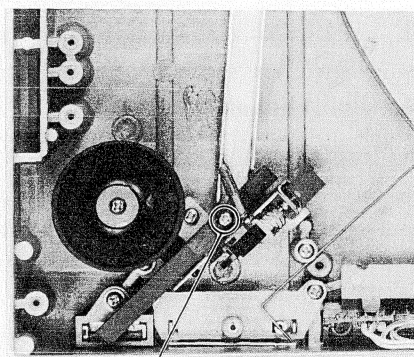
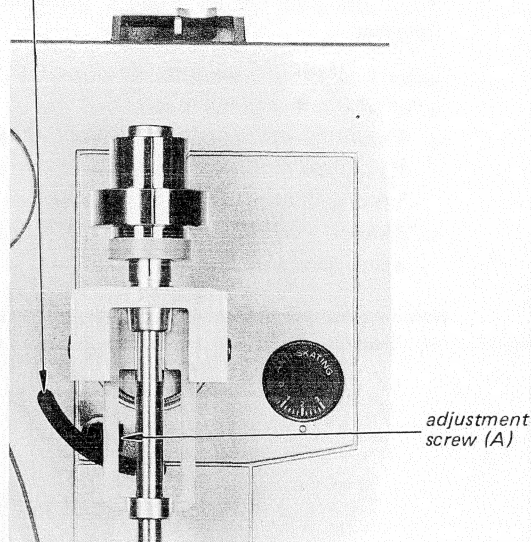
A)

1. Bring the tonearm toward the inner of the record and put the stylus in the last groove of the record.
2. Push the REJECT button and slowly turn the turntable by hand to lift the tonearm.
3. Adjust the height of the tonearm lifter by turning the adjustment screw(A) so that the clearance between the stylus tip and the record is approx. 4 mm ($\frac{3}{16}$ ") to 12 mm ($\frac{15}{32}$ ").
4. After the adjustment, make sure by turning the turntable by hand that the tonearm smoothly returns to the tonearm rest.

B)

1. Make a lifter up mode by pushing the lifter button.
2. Slowly turn the turntable by hand clockwise and, at the same time, bring the tonearm to the outer-most record groove. With this condition, adjust the adjustment screw (B) so that the clearance between the stylus tip and the record surface becomes in 4 mm ($\frac{3}{16}$ ") to 12 mm ($\frac{15}{32}$ ").
3. By further turning the turntable by hand, move the tonearm to the inner-most groove. In this condition, the clearance between the stylus tip and the record surface should also be 4 mm ($\frac{3}{16}$ ") to 12 mm ($\frac{15}{32}$ ").
4. The clearance difference between A) and B)-3 should be less than 4 mm ($\frac{3}{16}$ ").
5. After the adjustment, lock the adjustment screw (B) with locking compound.

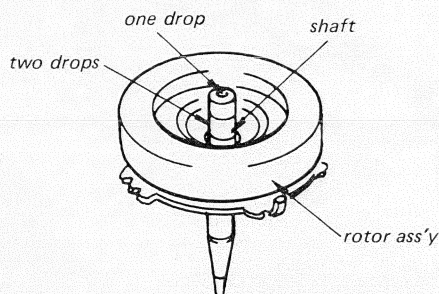
tonearm lifter



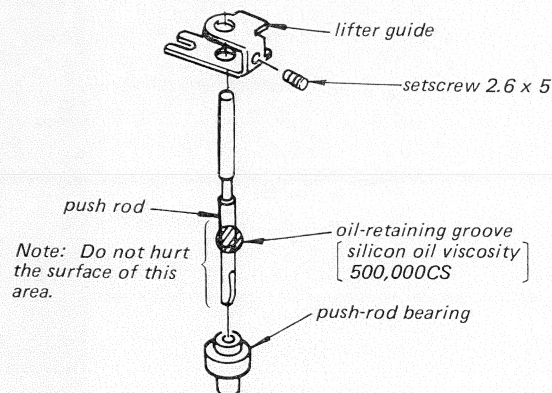
clockwise: clearance decreases
counterclockwise: clearance increases

Lubrication

1. When the motor rotor ass'y is replaced, apply Sony oil OL-2KA to the rotor shaft as illustrated below.

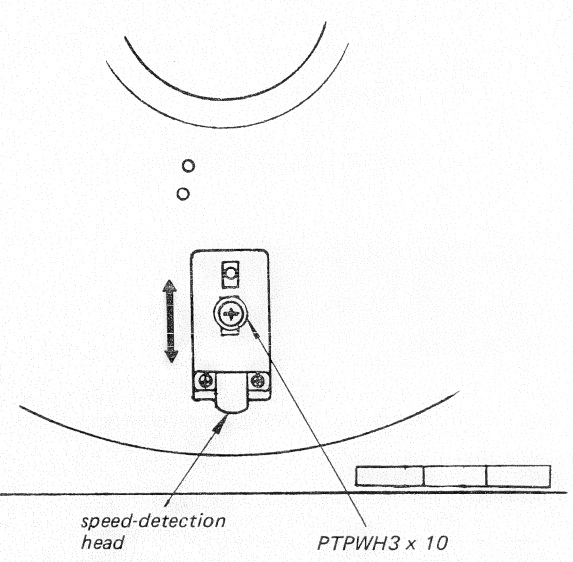


2. When the push rod is replaced, apply proper silicon oil to the oil-retaining groove of the shaft as illustrated below.



3-2. ELECTRICAL ADJUSTMENTS

— with the turntable removed —



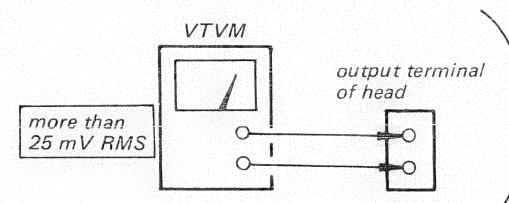
Speed-Detection Head Output Level Adjustment

Setting:

Power switch: ON by moving tonearm inside.

- Adjust the position of the head by moving it back and forth after loosening the screw (PTPWH 3 x 10) so that the VTVM reading is more than 25 mV RMS at 33 1/3 rpm.
- Make sure that the head does not touch the turntable and tighten the screws securely.

Note: The clearance between the magnet coated rim and the speed-detection head is more than 0.3 mm.



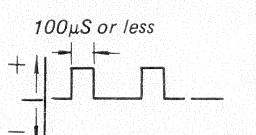
Speed Adjustment

Setting:

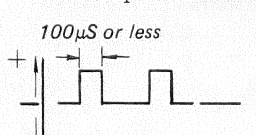
power switch: ON

- Set the SPEED to 45 rpm.
- Adjust RV102 for specified waveform on the oscilloscope as shown below.
- Set the SPEED to 33 rpm.
- Adjust RV101 for specified waveform on the oscilloscope as shown below.

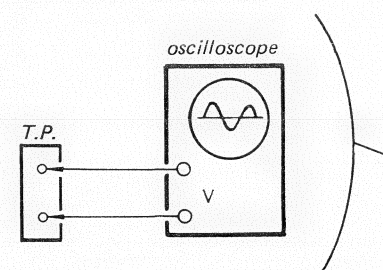
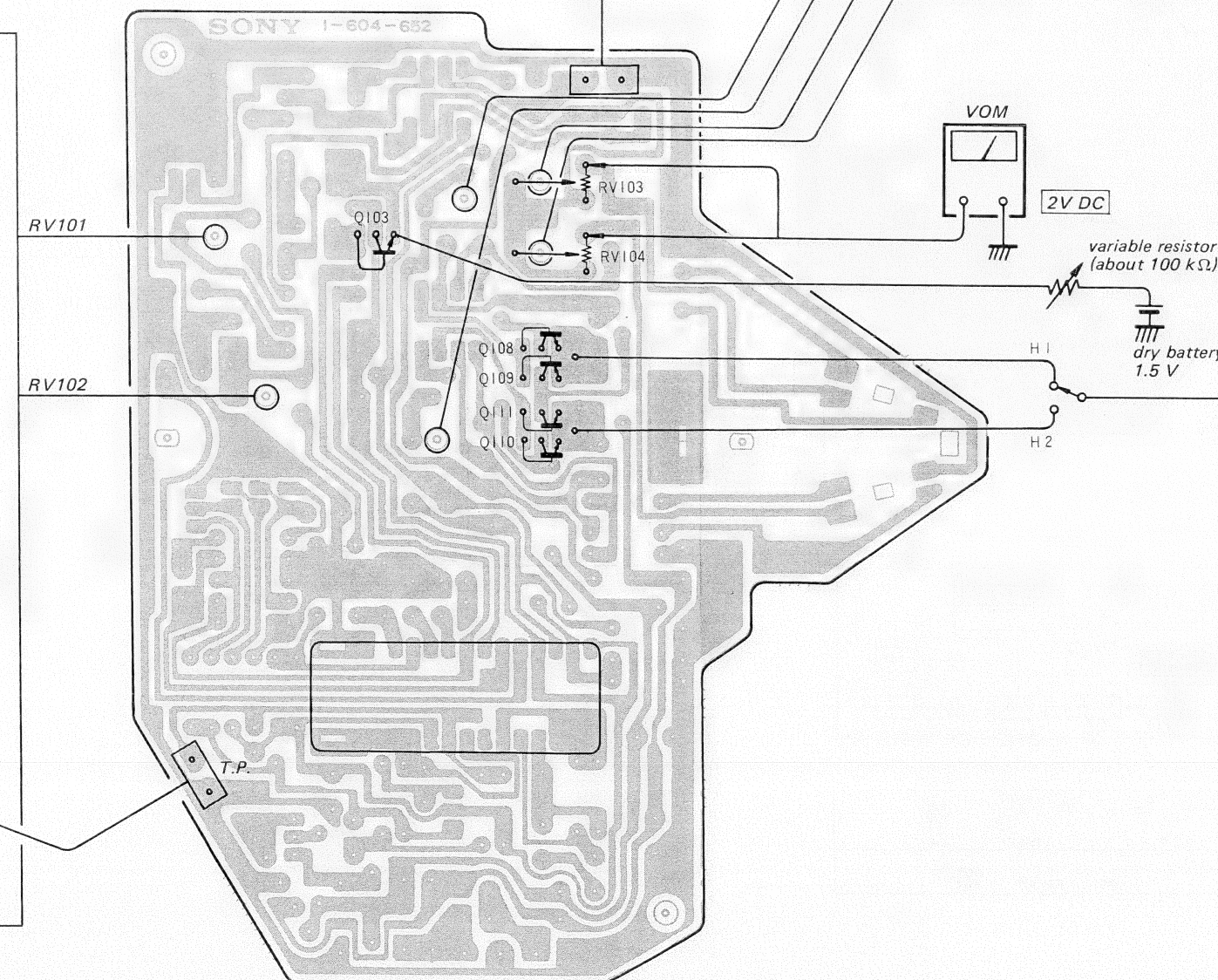
Note: The waveform may appear to negative side.



100µs or less



100µs or less

Gain/Offset Adjustment

Remove the turntable, turn POWER switch on.

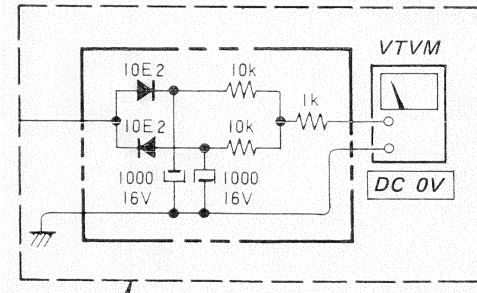
- Connect a dry battery (1.5 V) to the emitter of Q103 via a variable resistor (about 100 kΩ). Adjust the variable resistor so that terminal voltage at RV103, 104 is 2 V.

Gain adjustment:

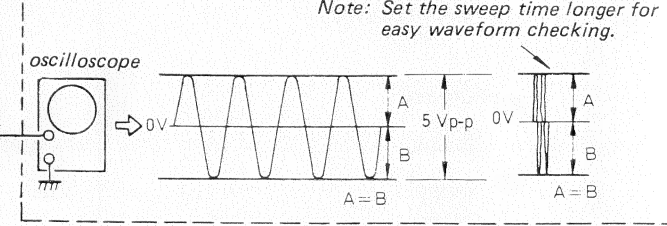
- Connect an oscilloscope to H1 and adjust RV103 for 5 Vp-p reading on the oscilloscope.
- Connect an oscilloscope to H2 and adjust RV104 for 5 Vp-p reading on the oscilloscope.

Offset adjustment:

- Connect VTVM or an oscilloscope to H1 and adjust RV105 for 0 V dc VTVM reading or for the waveform on the oscilloscope as shown below.
- Connect VTVM or an oscilloscope to H2 and adjust RV106 for 0 V dc VTVM reading or for the waveform on the oscilloscope as shown below.



or:



Note: Set the sweep time longer for easy waveform checking.

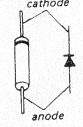
SECTION 4 DIAGRAMS

4-1. MOUNTING DIAGRAM — Conductor Side —

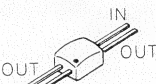
2SB734



10E2
1T40
1S1555
HZ7C3L
HZ9A1L



HL-300C



2SC945



2SC1364



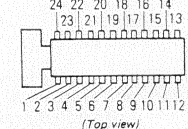
2SD414



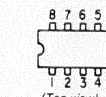
2SD774



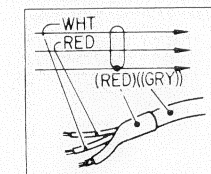
CX193



μPC4558C



- Color code of sleeving over the end of the jacket.



- : parts extracted from the component side.
- : parts extracted from the conductor side.
- ⊢ and ⊣ : electrolytics
- ▨ : B + pattern
- : B - pattern

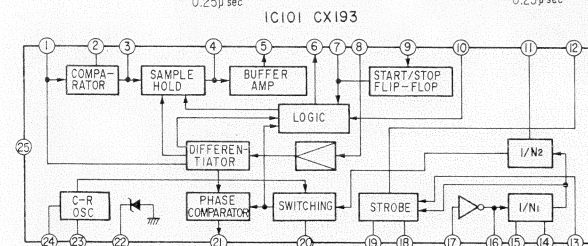
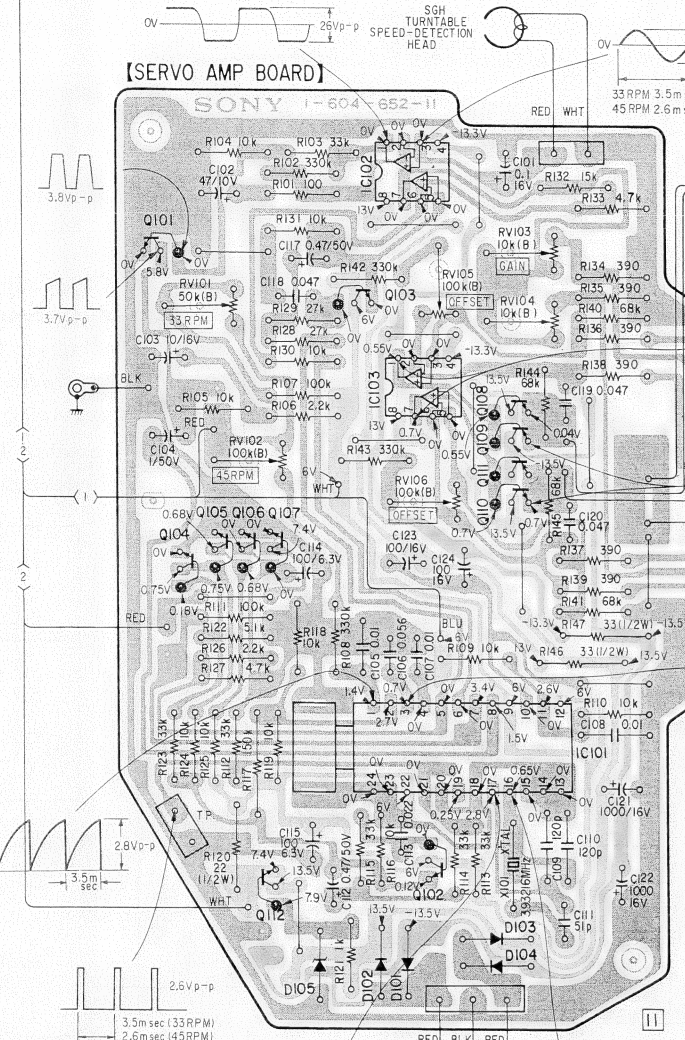
1

2

3

4

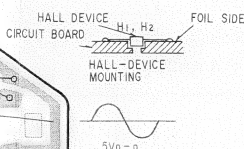
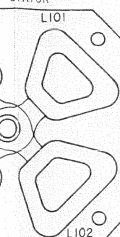
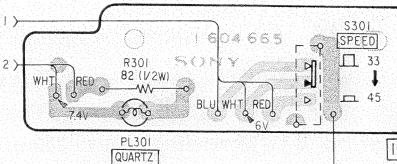
5



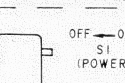
Q	IC	101	105	106	107	103	IC102	108
		104	112			IC101	102	109
D							103	110
							105	104

C

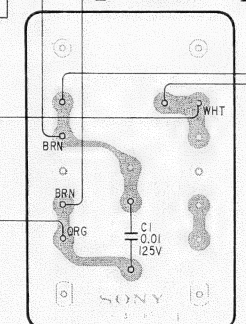
[SWITCH BOARD]



US, CANADIAN MODEL



[POWER-INPUT BOARD]

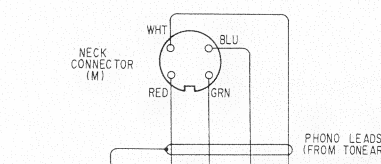


D

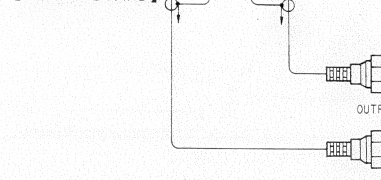
E

F

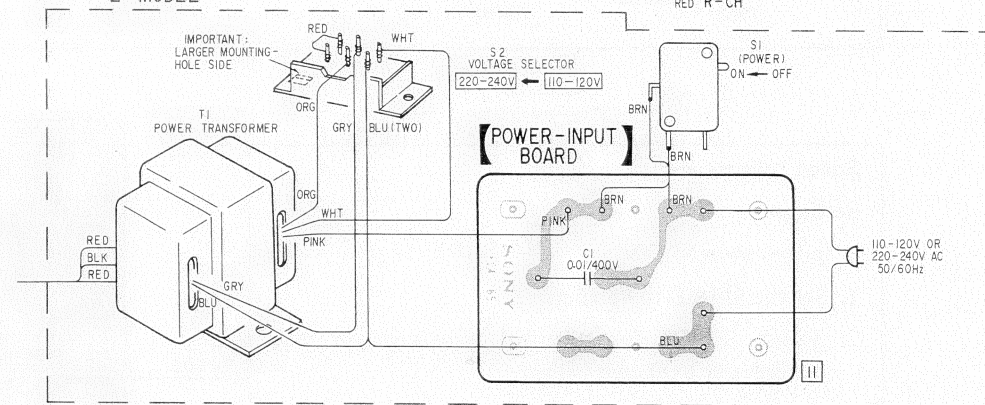
G



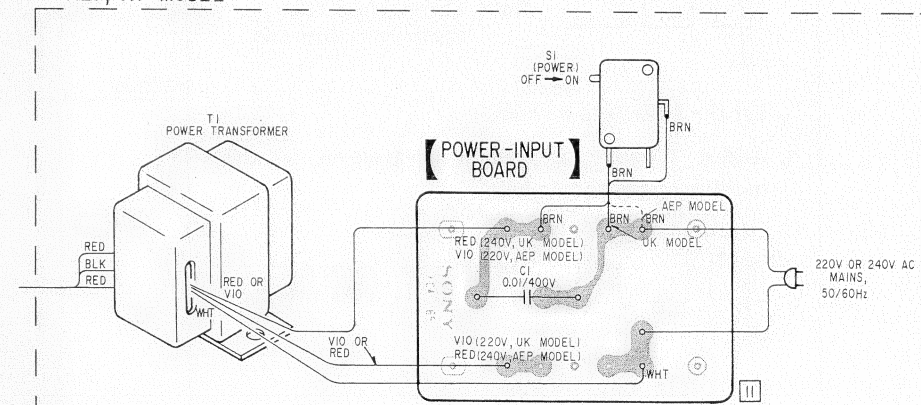
[PHONO BOARD]

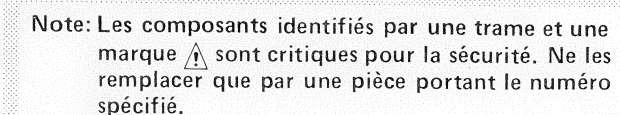


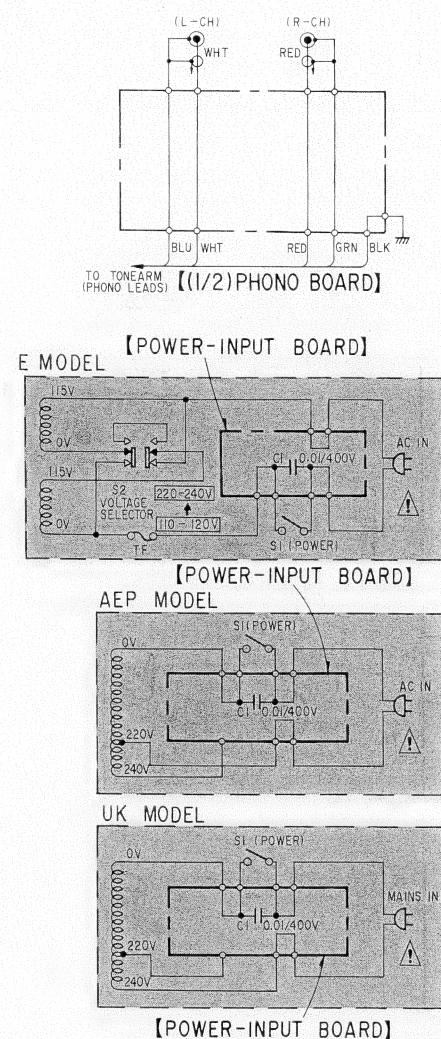
E MODEL




AEP, UK MODEL

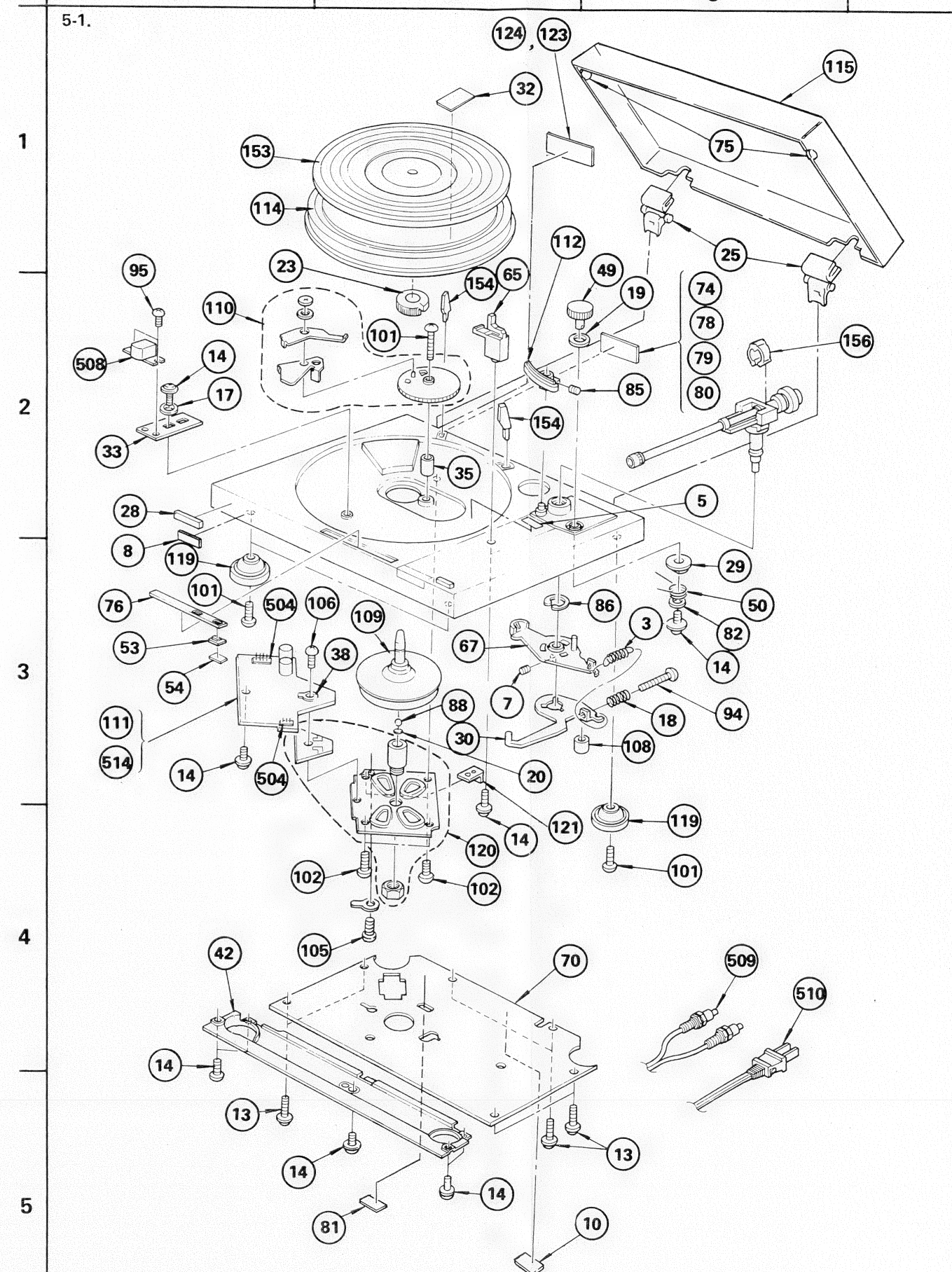


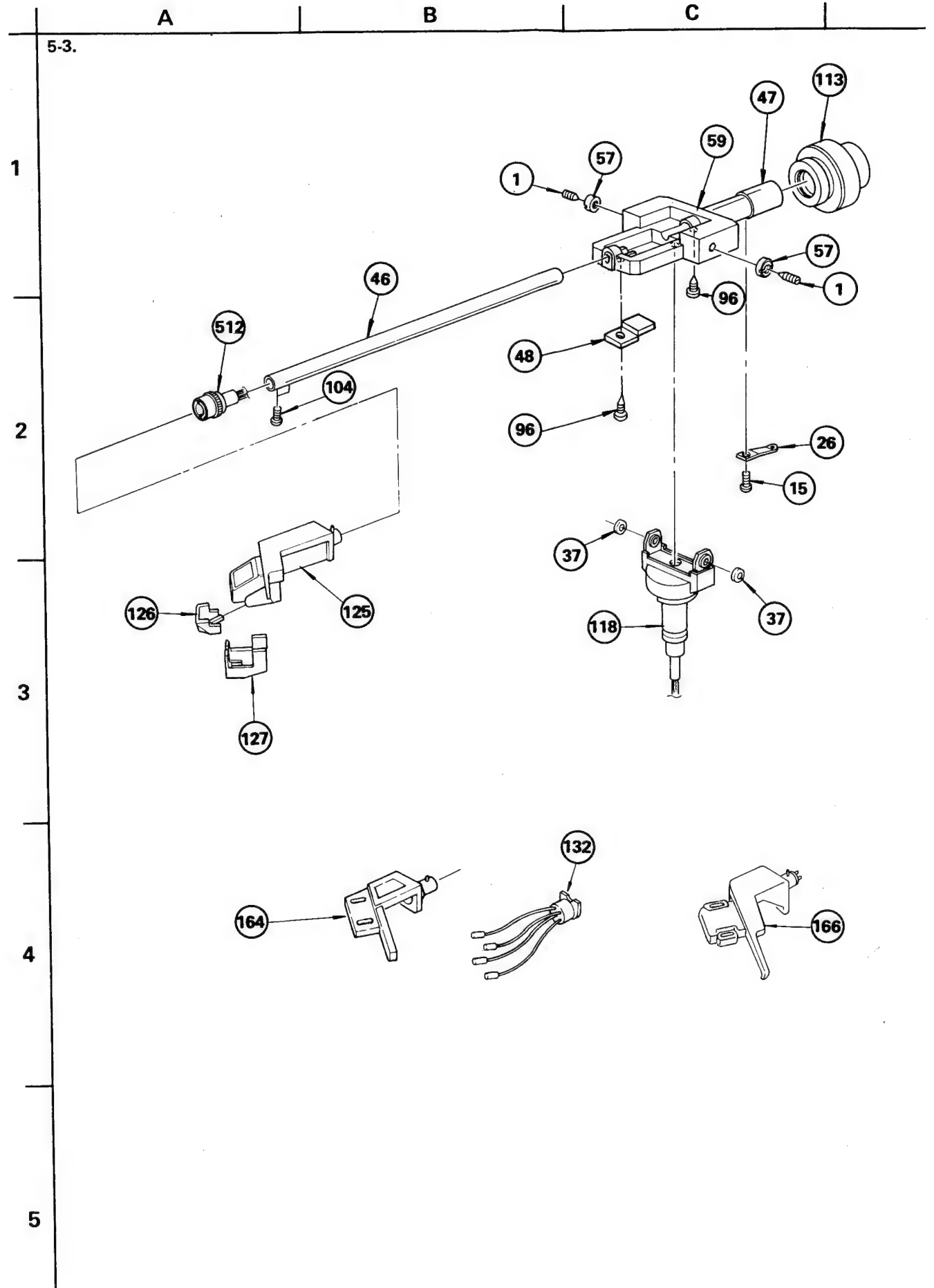
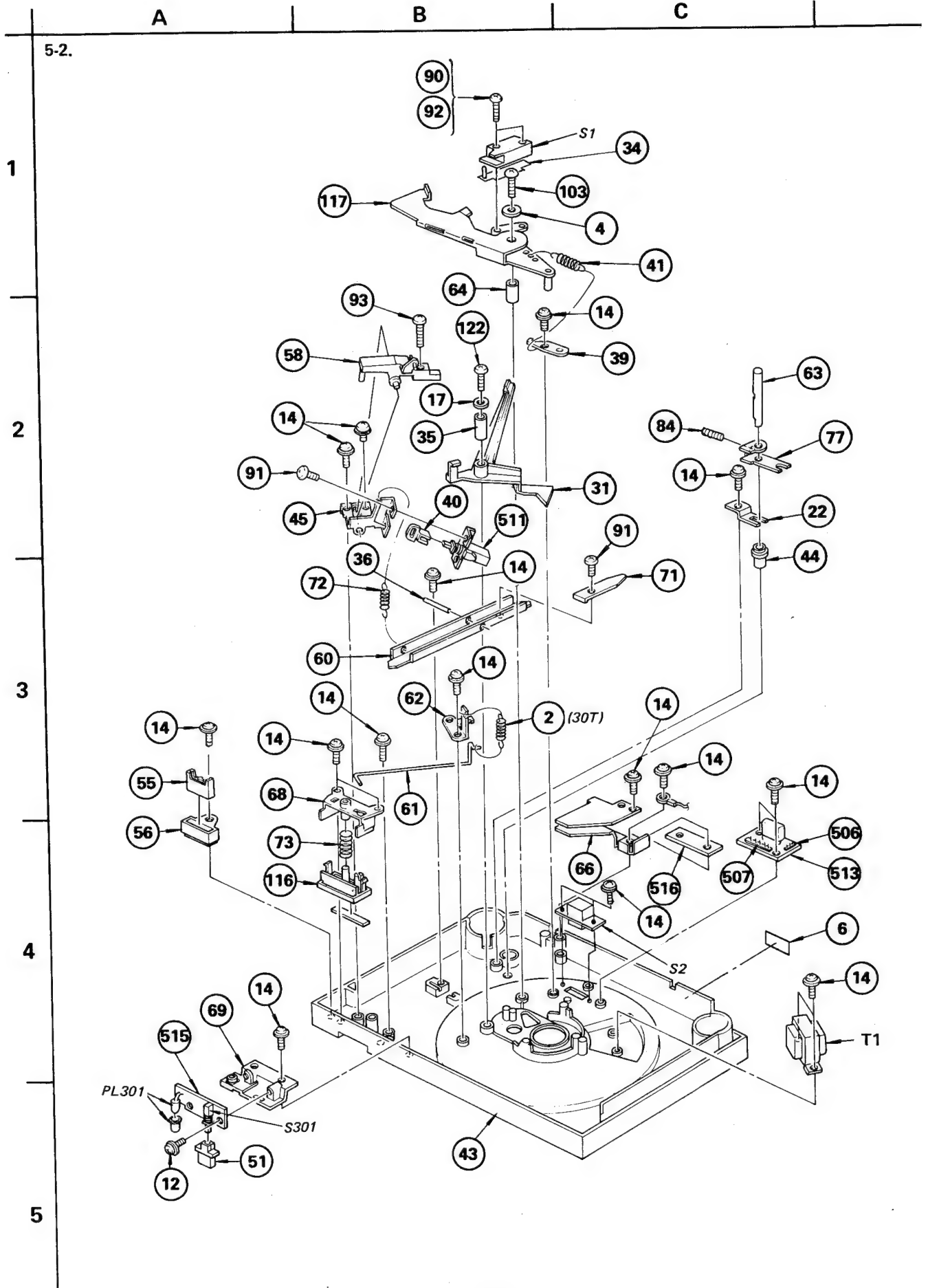




Ref. No.	Switch	Position
S1	power	OFF
S2	110–120V/220–240V	110–120V
S301	SPEED	33

Note: Les composants identifiés par une trame et une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.



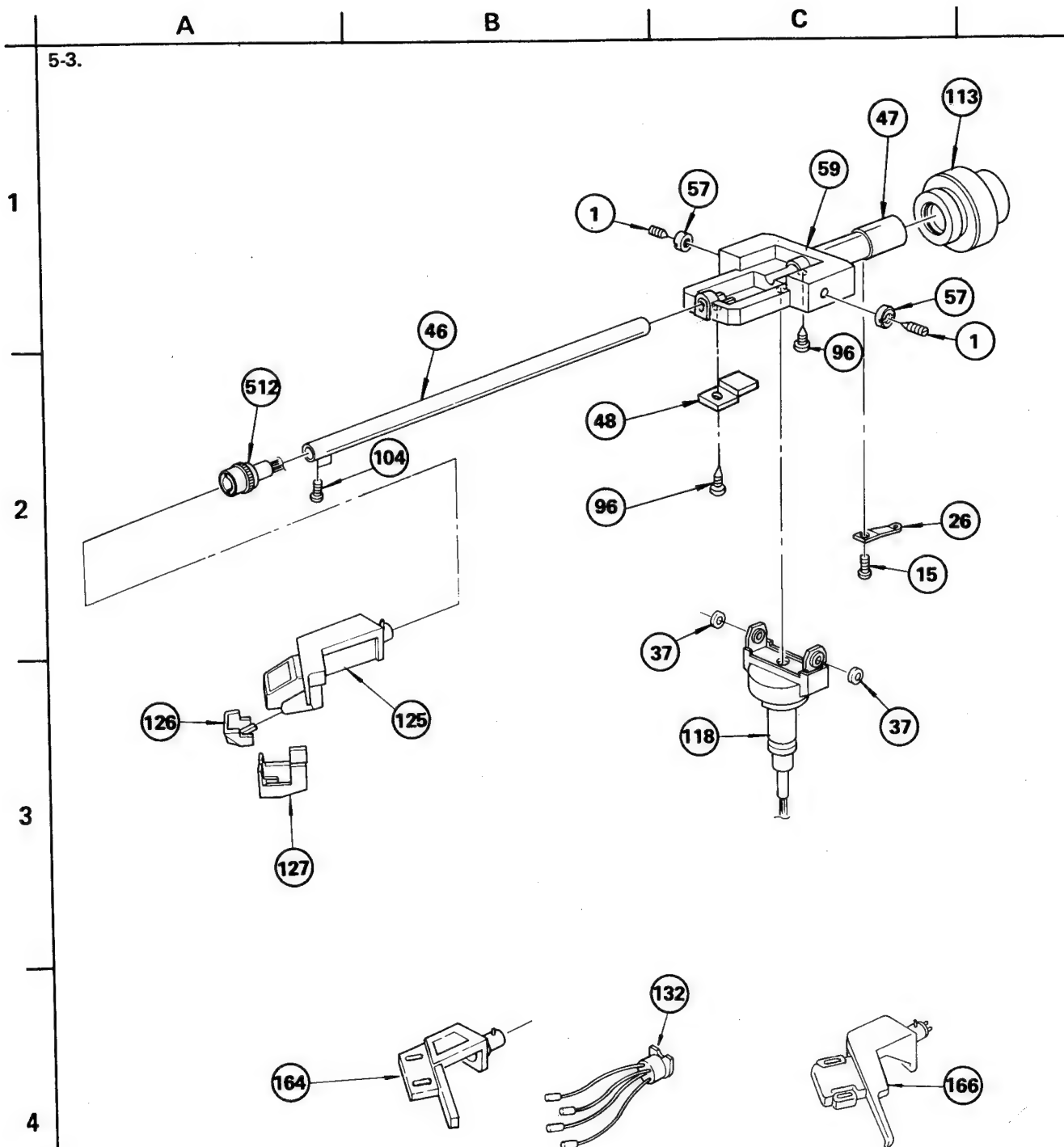


No.	Part
1	2-2
2	3-5
3	3-5
4	3-6
5	3-7
6	3-7
7	3-7
8	3-7
9	3-7
10	3-7
11	3-7
12	3-7
13	3-7
14	3-7
15	3-7
16	4-3
17	4-3
18	4-3
19	4-3
20	4-3
21	4-3
22	4-3
23	4-3
24	4-3
25	4-3
26	4-3
27	**
28	4-3
29	4-3
30	4-3
31	4-3
32	4-3
33	4-3
34	4-3
35	4-3
36	4-3
37	4-3
38	4-3
39	4-3
40	4-3
41	4-3
42	4-3
43	4-3
44	4-3
45	4-3

NOTE:
Items
cripti
are se

Items
they a
servic
pated

Due to
number
may be
set.



GENERAL SECTION

No.	Part No.	Description
1	2-203-518-00	SCREW, PIVOT
2	3-530-248-XX	SPRING, TENSION
3	3-536-780-00	SPRING, TENSION
4	3-610-931-11	SPACER, SHAFT, DRUM, HEAD
5	3-701-030-00	LABEL, SERIAL NUMBER
6	3-703-396-01	(UK).....LABEL, CAUTION
7	3-701-508-00	SET SCREW, DOUBLE POINT 3X6
8	3-701-690-00	(UK).....LABEL, MADE IN JAPAN
9	3-701-748-00	CLAMP
10	3-703-043-00	(US,Canadian,UK)...LABEL, MAIN CAUTION
11	3-703-043-21	LABEL, CAUTION, MAIN
12	3-703-135-00	SCREW, TAPPING
13	3-703-136-00	SCREW, TAPPING
14	3-703-137-00	SCREW, TAPPING
15	3-703-454-00	SCREW, TAPPING
16	4-301-647-00	(US,Canadian,UK,E)...WASHER, SPECIAL
17	4-812-554-00	WASHER
18	4-836-836-00	SPRING, COMPRESSION
19	4-844-041-00	WASHER, (N)
20	4-852-007-00	RETAINER (A), THRUST
21	4-852-008-00	RETAINER (B), THRUST
22	4-852-033-00	RETAINER, CASE, PUSH ROD
23	4-852-061-00	GEAR, CENTER
24	4-852-073-00	RETAINER (C), THRUST
25	4-852-704-41	HINGE
26	4-853-043-00	SPRING (B), GUIDE
27	*****	*****
28	4-857-661-11	EMBLEM, SONY
29	4-858-229-00	CAM, IFC
30	4-858-234-00	LEVER, RETURN
31	4-858-240-00	LEVER (M), CLUTCH
32	4-858-264-21	LABEL, CAUTION
33	4-858-266-00	BRACKET, HEAD
34	4-858-268-00	(AEP,UK,E)...SHEET, INSULATION
35	4-861-933-00	SLEEVE (D)
36	4-861-940-00	SHAFT, LIFTER LEVER
37	4-863-604-00	BEARING, PIVOT
38	4-870-539-00	PLATE, GROUND
39	4-870-752-00	HOLDER, SPRING
40	4-870-757-00	CONNECTOR
41	4-870-785-00	SPRING, TENSION (MAIN LEVER)
42	4-874-205-01	PLATE (A), BOTTOM
43	4-874-206-00	FRAME
44	4-874-218-00	CASE, PUSH ROD
45	4-874-239-00	HOLDER, LOCK MECHANISM

GENERAL SECTION

No.	Part No.	Description
46	4-874-243-00	PIPE, ARM
47	4-874-244-00	BAR, WEIGHT
48	4-874-246-00	RETAINER, PLATE, UP AND DOWN
49	4-874-247-00	KNOB, IFC
50	4-874-250-00	SPRING
51	4-874-257-11	KNOB (A)
52	*****	*****
53	4-874-258-01	PLATE, INDICATION
54	4-874-265-11	FILTER
55	4-874-267-01	KNOB, LIFTER
56	4-874-269-11	ESCUTCHEON, LIFTER
57	4-874-272-00	NUT (L), LOCK
58	4-874-280-00	LEVER (B), SEESAW
59	4-874-291-00	JOINT (D), PIPE
60	4-875-201-00	LEVER (A), SEESAW
61	4-875-204-00	SPRING
62	4-875-205-00	PLATE, FIXED
63	4-875-206-00	ROD, PUSH
64	4-875-207-00	SLEEVE
65	4-875-208-00	REST, ARM
66	4-875-212-00	PLATE, SHIELD
67	4-875-214-00	LEVER, SWITCH
68	4-875-215-01	ESCUTCHEON, REJECT
69	4-875-216-01	ESCUTCHEON (A)
70	4-875-217-00	BOARD (C), BOTTOM
71	4-875-221-00	SPRING (A), LIFTER
72	4-875-222-00	SPRING, TENSION
73	3-533-014-02	SPRING, COMPRESSION (REJECT)
74	4-876-302-00	(AEP).....LABEL, MODEL NUMBER
75	*****	*****
76	4-876-307-02	PANEL (B), INDICATION
77	4-876-317-00	GUIDE, LIFTER
78	4-876-335-00	(UK).....LABEL, MODEL NUMBER
79	4-876-336-00	(USA,Canadian)...LABEL, MODEL NUMBER
80	4-876-337-00	(E).....LABEL, MODEL NUMBER
81	4-876-344-00	(AEP)...LABEL, POWER-VOLTAGE
82	4-890-173-00	WASHER
83	7-621-734-09	SET-SCREW, HEX. 2.6X3
84	7-621-739-08	SET-SCT, HEX. 2.6X5 FLAT POINT
85	*****	*****
86	7-624-133-54	STOP RING 10, TYPE-CE
87	*****	*****
88	7-671-114-01	BALL 4, STEEL
89	*****	*****
90	7-682-122-27	(AEP,UK,E).....SCREW, +P 3X15

NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- Items marked "A" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part numbers (A-AAA-AAA-XX or A-AAA-AAA-X) may be different from those used in the set.

CAPACITORS:

- All capacitors are in μF . Common capacitors are omitted. Refer to the following lists for their part numbers. MF: μF , PF: μF .

RESISTORS

- All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.

- F : nonflammable

COILS

- MMH : mH, UH : μH

The components identified by shading and mark A are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque A sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

GENERAL SECTION

No.	Part No.	Description
91	7-682-146-01	SCREW +P 3X5
92	7-682-150-01	(US,Canadian)...SCREW +P 3x12
93	7-682-153-01	(AEP)...SCREW +P 3X20
94	7-682-553-09	SCREW +B 3X20
95	7-685-102-21	SCREW +P 2X4 TYPE2 SLIT
96	7-685-105-61	SCREW +PTP 2x8 TYPE4
97	7-685-550-24	SCREW +BVTP 3X16 TYPE2 SLIT
98	7-685-646-21	SCREW +BVTP 3X8 TYPE2 SLIT
99	
00	7-685-650-21	(US,Canadian,UK,E) ...SCREW, SELF-TAPPING +BV 3X16
01	7-685-651-21	SCREW +BVTP 3X20 TYPE1
02	7-685-661-71	SCREW +BVTP 4X12 TYPE2 SLIT
03	7-685-666-21	SCREW +BVTP 4X30 TYPE2 SLIT
04	7-685-772-04	SCREW +PTT 1.7X2,TYPE1
05	7-685-871-01	SCREW +BVTT 3X6 (S)
06	7-685-872-01	SCREW +BVTT 3X8 (S)
07	*****	
08	9-911-815-01	CUSHION
09	A-4608-175-A	ROTOR ASSY
10	A-4609-010-A	GEAR ASSY, DRIVING
111	▲;A-4619-171-A	MOUNTED PCB, SERVO
112	X-4874-211-0	PLATE ASSY, UP AND DOWN
113	X-4874-214-0	WEIGHT ASSY, MAIN
114	X-4874-218-0	TURNTABLE ASSY
115	X-4874-220-0	COVER ASSY, DUST
116	X-4875-201-1	KNOB ASSY, REJECT
117	▲;X-4875-202-1	(US,Canadian)...LEVER ASSY, MAIN
117	▲;X-4875-202-2	(AEP,UK,E)...LEVER ASSY, MAIN
118	X-4875-203-0	JOINT ASSY, CENTER
119	X-4875-204-0	INSULATOR ASSY
120	A-4608-185-A	STATOR ASSY
121	4-876-342-00	(E).....SHEET, INSULATION
122	7-685-152-21	SCREW +PTP 3x25 TYPE 2 SLIT
123	▲;3-701-046-00	(Canadian)...LABEL, CSA CERTIFICATION
124	*****	
125	A-4505-068-A	(AEP,UK,E)...CARTRIDGE XL-200
126	A-4587-061-A	(AEP,UK,E)...STYLUS, ND-200G
127	2-330-163-00	(AEP,UK,E)...COVER, STYLUS

ACCESSORY & PACKING MATERIAL

No.	Part No.	Description
131	▲;1-526-565-12	(E).....ADAPTOR, POWER PLUG
132	1-555-463-00	(US,Canadian,E)...CONNECTOR WITH LEAD
133	1-560-420-00	(US,Canadian,E)...CYLINDER, HEAD
134	2-056-532-00	(US,Canadian,E)...SCREW
135	2-224-081-00	(Canadian,E)...SCREW (E),CARTRIDGE BRACKET
136	2-229-507-01	(US)...WASHER, CARTRIDGE
137	3-701-613-00	BAG, POLYETHYLENE
138	3-701-616-00	BAG, POLYETHYLENE
139	3-701-630-00	BAG, POLYETHYLENE
140	3-701-806-00	ADAPTOR, 45 RPM
141	3-701-634-00	BAG, POLYETHYLENE
142	3-703-450-01	(US)...CAUTION SLIP, SAFETY REQUIREMENT
143	3-783-580-11	(AEP,UK,E).....MANUAL, INSTRUCTION
143	3-783-580-21	(US,Canadian)...MANUAL, INSTRUCTION
144	3-794-123-11	LABEL, CAUTION
145	3-795-153-51	(E).....SLIP, HEADSHELL INSTRUCTION
146	3-795-156-11	(AEP)...MANUAL, INSTRUCTION; DUTCH/SWEDISH
147	3-795-157-31	(Canadian)....MANUAL, INSTRUCTION; FRENCH
148	*****	
149	*****	
150	*****	
151	4-862-680-00	PROTECTOR
152	4-870-529-00	(E)....CASE, HEADSHELL/SCREWS
153	4-874-201-11	SHEET, TURNTABLE
154	4-874-262-00	GUIDE, RECORD
155	4-876-310-00	CUSHION, TURNTABLE
156	4-876-348-00	GUIDE, STYLUS-FORCE SETTING
157	4-876-349-00	INDIVIDUAL CARTON
158	4-876-350-00	HOLDER, TABLE
159	4-876-352-00	SHEET, PROTECTION
160	4-876-356-00	CUSHION, LEFT
161	4-876-357-00	CUSHION, RIGHT
162	*****	
163	*****	
164	X-4869-912-3	(US,Canadian,E)...SCREW ASSY, FITTING
165	X-4869-915-0	SCREW ASSY, FITTING
166	X-4874-226-1	(E).....SHELL ASSY, HEAD
167	X-4874-227-0	(US,Canadian)....WEIGHT ASSY, SUPPORT

ELECTRICAL PARTS

Ref.No.	Part No.	Description
502	1-452-127-00	MAGNET
503	▲;1-508-799-00	BASE POST (U TYPE)
504	▲;1-508-800-13	U TYPE BASE POST 3P
505	1-527-380-00	CRYSTAL, OSC
506	▲;1-535-115-00	TERMINAL
507	▲;1-535-118-00	TERMINAL
508	1-543-093-00	HEAD
509	1-551-294-00	CORD
510	▲;1-551-967-12	(UK).....CORD, POWER
510	▲;1-551-472-23	(E).....CORD, POWER
510	▲;1-551-628-00	(US,Canadian)...CORD, POWER
510	▲;1-551-884-31	(UK).....CORD, POWER
510	▲;1-551-908-00	(AEP).....CORD, POWER
511	1-553-444-00	SWITCH, PUSH (1 KEY)
512	1-561-551-31	CONNECTOR, NECK CYLINDER (M)
513	▲;1-604-651-00	PC BOARD, POWER
514	▲;1-604-652-00	PC BOARD, SERVO
515	▲;1-604-653-00	PC BOARD, SWITCH
516	▲;1-604-654-00	PC BOARD, PHONO
C1	▲;1-161-744-00	(AEP,UK,E).....CERAMIC 0.01 400V
C1	▲;1-161-749-00	(US,Canadian)...CERAMIC 0.01 125V
C101	1-131-402-00	ELECT(SOLID) 0.1MF 20% 16V
C103	1-123-356-00	ELECT 10MF 20% 16V
C105	1-130-188-00	FILM 0.01MF 5% 100V
C108	1-161-051-00	CERAMIC 0.01MF 30% 25V
C111	1-102-491-00	CERAMIC 51PF 5% 50V
C123	1-123-333-00	ELECT 100MF 20% 16V
C124	1-123-333-00	ELECT 100MF 20% 16V
D101	▲;8-719-200-02	DIODE 10E-2
D102	▲;8-719-200-02	DIODE 10E-2
D103	▲;8-719-200-02	DIODE 10E-2
D104	▲;8-719-200-02	DIODE 10E-2
D105	8-719-910-68	DIODE HZ6C1L
H1	8-719-903-00	DIODE HL-300C
H2	8-719-903-00	DIODE HL-300C
IC101	8-751-930-00	IC CX-193
IC102	8-759-145-58	IC UPC4558C
IC103	8-759-145-58	IC UPC4558C
PL301	1-518-322-21	LAMP, PILOT
Q101	8-729-663-47	TRANSISTOR 2SC1364
Q102	8-729-663-47	TRANSISTOR 2SC1364
Q103	8-729-663-47	TRANSISTOR 2SC1364
Q104	8-729-663-47	TRANSISTOR 2SC1364
Q105	8-729-663-47	TRANSISTOR 2SC1364
Q106	8-729-663-47	TRANSISTOR 2SC1364
Q107	8-729-663-47	TRANSISTOR 2SC1364
Q108	8-729-177-43	TRANSISTOR 2SD774-K
Q109	8-729-103-43	TRANSISTOR 2SB734-K
Q110	8-729-177-43	TRANSISTOR 2SD774-K

ELECTRICAL PARTS

Ref.No.	Part No.	Description
Q111	8-729-103-43	TRANSISTOR 2SB734-K
Q112	8-729-141-43	TRANSISTOR 2SD414-R
R120	1-244-825-00	CARBON 10 5% 1/2W
R146	1-244-837-00	CARBON 33 5% 1/2W
R147	1-244-837-00	CARBON 33 5% 1/2W
R301	1-244-837-00	CARBON 33 5% 1/2W
RV101	1-228-239-00	RES, ADJ, METAL GLAZE 50K
RV102	1-228-240-00	RES, ADJ, METAL GLAZE 100K
RV103	1-226-236-00	RES, ADJ, CARBON 10K
RV104	1-226-236-00	RES, ADJ, CARBON 10K
RV105	1-226-239-00	RES, ADJ, CARBON 100K
RV106	1-226-239-00	RES, ADJ, CARBON 100K
S1	▲;1-516-657-00	(US,Canadian)...SWITCH, MICRO
S1	▲;1-516-889-00	(AEP,UK,E).....SWITCH, MICRO
S2	1-552-535-21	(E)...SWITCH, SLIDE
S301	1-552-909-00	SWITCH, PUSH
T1	▲;1-446-101-00	(US,Canadian)...TRANSFORMER, POWER
T1	▲;1-446-825-00	(E).....TRANSFORMER, POWER
T1	▲;1-446-953-00	(UK,AEP).....TRANSFORMER, POWER

NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- Items marked "▲" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part numbers (▲-▲▲-▲▲-XX or ▲-▲▲-▲▲-X) may be different from those used in the set.

CAPACITORS:

- All capacitors are in μ F. Common capacitors are omitted. Refer to the following lists for their part numbers.
- MF: μ F, PF: μ F.

RESISTORS

- All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.

- F : nonflammable

COILS

- MMH : mH, UH : μ H

The components identified by shading and mark ▲ are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque ▲ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- Items marked "▲" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part numbers (▲-▲▲-▲▲-XX or ▲-▲▲-▲▲-X) may be different from those used in the set.

CAPACITORS:

- All capacitors are in μ F. Common capacitors are omitted. Refer to the following lists for their part numbers.
- MF: μ F, PF: μ F.

RESISTORS

- All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.

- F : nonflammable

COILS

- MMH : mH, UH : μ H

The components identified by shading and mark ▲ are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque ▲ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

ELECTRICAL PARTS

Ref.No.	Part No.	Description
502	1-452-127-00	MAGNET
503	1-508-799-00	BASE POST (U TYPE)
504	1-508-800-13	U TYPE BASE POST 3P
505	1-527-380-00	CRYSTAL, OSC
506	1-535-115-00	TERMINAL
507	1-535-118-00	TERMINAL
508	1-543-093-00	HEAD
509	1-551-294-00	CORD
510	1-551-967-12	(UK).....CORD, POWER
510	1-551-472-23	(E).....CORD, POWER
510	1-551-628-00	(US,Canadian)....CORD, POWER
510	1-551-884-31	(UK).....CORD, POWER
510	1-551-908-00	(AEP).....CORD, POWER
511	1-553-444-00	SWITCH, PUSH (1 KEY)
512	1-561-551-31	CONNECTOR, NECK CYLINDER (M)
513	1-604-651-00	PC BOARD, POWER
514	1-604-652-00	PC BOARD, SERVO
515	1-604-653-00	PC BOARD, SWITCH
516	1-604-654-00	PC BOARD, PHONO
C1	1-161-744-00	(AEP,UK,E).....CERAMIC 0.01 400V
C1	1-161-749-00	(US,Canadian)....CERAMIC 0.01 125V
C101	1-131-402-00	ELECT(SOLID) 0.1MF 20% 16V
C103	1-123-356-00	ELECT 10MF 20% 16V
C105	1-130-188-00	FILM 0.01MF 5% 100V
C108	1-161-051-00	CERAMIC 0.01MF 30% 25V
C111	1-102-491-00	CERAMIC 51PF 5% 50V
C123	1-123-333-00	ELECT 100MF 20% 16V
C124	1-123-333-00	ELECT 100MF 20% 16V
D101	8-719-200-02	DIODE 10E-2
D102	8-719-200-02	DIODE 10E-2
D103	8-719-200-02	DIODE 10E-2
D104	8-719-200-02	DIODE 10E-2
D105	8-719-910-68	DIODE HZ6C1L
H1	8-719-903-00	DIODE HL-300C
H2	8-719-903-00	DIODE HL-300C
IC101	8-751-930-00	IC CX-193
IC102	8-759-145-58	IC UPC4558C
IC103	8-759-145-58	IC UPC4558C
PL301	1-518-322-21	LAMP, PILOT
Q101	8-729-663-47	TRANSISTOR 2SC1364
Q102	8-729-663-47	TRANSISTOR 2SC1364
Q103	8-729-663-47	TRANSISTOR 2SC1364
Q104	8-729-663-47	TRANSISTOR 2SC1364
Q105	8-729-663-47	TRANSISTOR 2SC1364
Q106	8-729-663-47	TRANSISTOR 2SC1364
Q107	8-729-663-47	TRANSISTOR 2SC1364
Q108	8-729-177-43	TRANSISTOR 2SD774-K
Q109	8-729-103-43	TRANSISTOR 2SB734-K
Q110	8-729-177-43	TRANSISTOR 2SD774-K

NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- Items marked "▲" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part numbers (Δ-ΔΔΔ-ΔΔΔ-XX or Δ-ΔΔΔΔ-ΔΔΔ-X) may be different from those used in the set.

CAPACITORS:

- All capacitors are in μF. Common capacitors are omitted. Refer to the following lists for their part numbers. MF:μF, PF:μF.

RESISTORS

- All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.
- F : nonflammable

COILS

- MMH : mH, UH : μH

ELECTRICAL PARTS

Ref.No.	Part No.	Description
Q111	8-729-103-43	TRANSISTOR 2SB734-K
Q112	8-729-141-43	TRANSISTOR 2SD414-R
R120	1-244-825-00	CARBON 10 5% 1/2W
R146	1-244-837-00	CARBON 33 5% 1/2W
R147	1-244-837-00	CARBON 33 5% 1/2W
R301	1-244-837-00	CARBON 33 5% 1/2W
RV101	1-228-239-00	RES, ADJ, METAL GLAZE 50K
RV102	1-228-240-00	RES, ADJ, METAL GLAZE 100K
RV103	1-226-236-00	RES, ADJ, CARBON 10K
RV104	1-226-236-00	RES, ADJ, CARBON 10K
RV105	1-226-239-00	RES, ADJ, CARBON 100K
RV106	1-226-239-00	RES, ADJ, CARBON 100K
S1	1-516-657-00	(US,Canadian)...SWITCH, MICRO
S1	1-516-889-00	(AEP,UK,E).....SWITCH, MICRO
S2	1-552-535-21	(E)...SWITCH, SLIDE
S301	1-552-909-00	SWITCH, PUSH
T1	1-446-101-00	(US,Canadian)...TRANSFORMER, POWER
T1	1-446-825-00	(E).....TRANSFORMER, POWER
T1	1-446-953-00	(UK,AEP).....TRANSFORMER, POWER

SONY-STANDARD CAPACITORS, RESISTORS AND HARDWARES

ELECTROLYTIC CAPACITORS

CAP. (μF)	RATING → : Use the high voltage rated one.					
	6.3 VOLT.	10 VOLT.	16 VOLT.	25 VOLT.	35 VOLT.	50 VOLT.
	PART No.	PART No.	PART No.	PART No.	PART No.	PART No.
0.47						1-121-726-00
1.0						1-121-391-00
2.2						1-121-450-00
3.3				1-121-392-00		1-121-393-00
4.7				1-121-395-00		1-121-396-00
10			1-121-651-00	1-121-398-00		1-121-738-00
22			1-121-479-00	1-121-480-00	1-121-662-00	1-121-152-00
33			1-121-403-00	1-121-404-00	1-121-652-00	1-121-405-00
47		1-121-352-00	1-121-409-00	1-121-410-00	1-121-653-00	1-121-411-00
100		1-121-414-00	1-121-415-00	1-121-416-00	1-121-357-00	1-121-417-00
220	1-121-419-00	1-121-420-00	1-121-421-00	1-121-422-00	1-121-261-00	1-121-423-00
330	1-121-751-00	1-121-805-00	1-121-521-00	1-121-654-00	1-121-655-00	1-121-656-00
470	1-121-424-00	1-121-425-00	1-121-426-00	1-121-733-00	1-121-361-00	1-121-810-00
1000		1-121-736-00	1-121-245-00	1-121-657-00	1-121-388-00	1-123-061-00
2200	1-121-658-00	1-121-659-00	1-121-660-00	1-123-067-00	1-121-984-00	
3300	1-121-661-00	1-123-075-00	1-123-071-00			

CAP. (μF)	100 VOLT.	160 VOLT.	250 VOLT.	350 VOLT.
	PART No.	PART No.	PART No.	PART No.
0.47				
1.0	1-123-249-00	1-123-252-00	1-123-003-00	1-121-168-00
2.2	1-123-250-00	1-123-026-00		1-123-028-00
3.3	1-121-995-00		1-123-004-00	1-123-006-00
4.7	1-123-255-00	1-121-246-00	1-121-759-00	1-123-007-00
10	1-121-126-00	1-121-999-00	1-123-254-00	1-123-008-00
22	1-121-996-00	1-123-253-00	1-123-005-00	1-123-022-00
33	1-121-997-00	1-121-757-00		
47	1-123-251-00	1-121-919-00		
100	1-123-084-00			

CERAMIC CAPACITORS

RATING							
CAP. (pF)	50 VOLT.	CAP. (pF)	50 VOLT.	CAP. (pF)	50 VOLT.	CAP. (μF)	50 VOLT.
	PART No.		PART No.		PART No.		PART No.
0.5	1-101-837-00	22	1-102-959-00	150	1-101-361-00	0.001	1-102-074-00
0.75	1-101-586-00	24	1-102-960-00	160	1-101-367-00	0.0012	1-102-118-00
1.0	1-102-934-00	27	1-102-961-00	180	1-102-976-00	0.0015	1-102-119-00
1.5	1-101-576-00	30	1-102-962-00	200	1-102-977-00	0.0018	1-102-120-00
2.0	1-102-935-00	33	1-102-963-00	220	1-102-978-00	0.0022	1-102-121-00
3	1-102-936-00	36	1-102-964-00	240	1-102-979-00	0.0027	1-102-122-00
4	1-102-937-00	39	1-102-965-00	270	1-102-980-00	0.0033	1-102-123-00
5	1-102-942-00	43	1-102-966-00	300	1-102-981-00	0.0039	1-102-124-00
6	1-102-943-00	47	1-101-880-00	330	1-102-820-00	0.0047	1-102-125-00
7	1-102-944-00	51	1-101-882-00	360	1-102-821-00	0.0056	1-102-126-00
8	1-102-945-00	56	1-101-884-00	390	1-102-822-00	0.0068	1-102-127-00
9	1-102-946-00	62	1-101-886-00	430	1-102-823-00	0.0082	1-102-128-00
10	1-102-947-00	68	1-101-888-00	470	1-102-824-00	0.01	1-102-129-00
11	1-102-948-00	75	1-101-890-00	510	1-101-059-00	0.022	1-101-005-00
12	1-102-949-00	82	1-102-971-00	560	1-102-115-00	0.047	1-101-006-00
13	1-102-950-00	91	1-102-972-00	680	1-102-116-00		
15	1-102-951-00	100	1-102-973-00	820	1-102-117-00		
16	1-102-952-00	110	1-102-815-00				
18	1-102-953-00	120	1-102-816-00				
20	1-102-958-00	130	1-101-081-00				

0.001μF = 1,000pF

CERAMIC (SEMICONDUCTOR) CAPACITORS

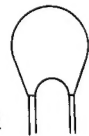
RATING → : Use the high voltage rated one.					
CAP. (μF)	25 VOLT.	50 VOLT.	CAP. (μF)	25 VOLT.	50 VOLT.
	PART No.	PART No.		PART No.	PART No.
0.001		1-161-039-00	0.018	1-161-016-00	1-161-054-00
0.0012		1-161-040-00	0.022	1-161-017-00	1-161-055-00
0.0015		1-161-041-00	0.027	1-161-018-00	1-161-056-00
0.0018		1-161-042-00	0.033	1-161-019-00	1-161-057-00
0.0022		1-161-043-00	0.039	1-161-010-00	1-161-058-00
0.0027		1-161-044-00	0.047	1-161-021-00	1-161-059-00
0.0033		1-161-045-00	0.056		1-161-060-00
0.0039		1-161-046-00	0.068		1-161-061-00
0.0047		1-161-047-00	0.082	1-161-024-00	1-161-062-00
0.0056		1-161-048-00	0.1	1-161-025-00	1-161-063-00
0.0068		1-161-049-00			
0.0082	1-161-012-00	1-161-050-00			
0.01	1-161-013-00	1-161-051-00			
0.012		1-161-052-00			
0.015	1-161-015-00	1-161-053-00			

The components identified by shading and mark ▲ are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque ▲ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

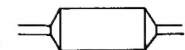
MYLAR CAPACITORS

RATING											
CAP. (μF)	50 VOLT.	100 VOLT.	200 VOLT.	CAP. (μF)	50 VOLT.	100 VOLT.	200 VOLT.	CAP. (μF)	50 VOLT.	100 VOLT.	200 VOLT.
PART No.	PART No.	PART No.	PART No.	PART No.	PART No.	PART No.	PART No.	PART No.	PART No.	PART No.	PART No.
0.001	1-108-227-00	1-108-365-00	1-108-409-00	0.01	1-108-239-00	1-108-377-00	1-108-421-00	0.1	1-108-251-00	1-108-389-00	1-108-433-00
0.0012	1-108-351-00	1-108-366-00	1-108-410-00	0.012	1-108-357-00	1-108-378-00	1-108-422-00	0.12	1-108-363-00	1-108-390-00	1-108-434-00
0.0015	1-108-228-00	1-108-367-00	1-108-411-00	0.015	1-108-240-00	1-108-379-00	1-108-423-00	0.15	1-108-252-00	1-108-391-00	1-108-435-00
0.0018	1-108-352-00	1-108-368-00	1-108-412-00	0.018	1-108-358-00	1-108-380-00	1-108-424-00	0.18	1-108-364-00	1-108-392-00	1-108-436-00
0.0022	1-108-230-00	1-108-369-00	1-108-413-00	0.022	1-108-242-00	1-108-381-00	1-108-425-00	0.22	1-108-254-00	1-108-393-00	1-108-437-00
0.0027	1-108-353-00	1-108-370-00	1-108-414-00	0.027	1-108-359-00	1-108-382-00	1-108-426-00	0.27	1-108-354-00	—	—
0.0033	1-108-232-00	1-108-371-00	1-108-415-00	0.033	1-108-244-00	1-108-383-00	1-108-427-00	0.33	1-108-355-00	—	—
0.0039	1-108-354-00	1-108-372-00	1-108-416-00	0.039	1-108-360-00	1-108-384-00	1-108-428-00	0.39	1-108-356-00	—	—
0.0047	1-108-234-00	1-108-373-00	1-108-417-00	0.047	1-108-246-00	1-108-385-00	1-108-429-00	0.47	1-108-357-00	—	—
0.0056	1-108-355-00	1-108-374-00	1-108-418-00	0.056	1-108-361-00	1-108-386-00	1-108-430-00	—	—	—	—
0.0068	1-108-237-00	1-108-375-00	1-108-419-00	0.068	1-108-249-00	1-108-387-00	1-108-431-00	—	—	—	—
0.0082	1-108-356-00	1-108-376-00	1-108-420-00	0.082	1-108-362-00	1-108-388-00	1-108-432-00	—	—	—	—



TANTALUM CAPACITORS

RATING							
→ : Use the high voltage rated one.							
CAP. (μF)	3.15 VOLT.	6.3 VOLT.	10 VOLT.	16 VOLT.	20 VOLT.	25 VOLT.	35 VOLT.
PART No.	PART No.	PART No.	PART No.	PART No.	PART No.	PART No.	PART No.
0.01	—	—	—	—	→	→	1-131-396-00
0.015	—	—	—	—	→	→	1-131-397-00
0.022	—	—	—	—	→	→	1-131-398-00
0.033	—	—	—	—	→	→	1-131-399-00
0.047	—	—	—	—	→	→	1-131-400-00
0.068	—	—	—	—	→	→	1-131-401-00
0.1	—	—	—	—	→	→	1-131-402-00
0.15	—	—	—	—	→	→	1-131-403-00
0.22	—	—	—	—	→	→	1-131-404-00
0.33	—	—	—	—	→	1-131-409-00	1-131-405-00
0.47	—	—	—	—	→	→	1-131-406-00
0.68	—	—	—	1-131-415-00	→	→	1-131-407-00
1.0	—	—	1-131-418-00	—	→	→	1-131-408-00
1.5	—	1-131-421-00	—	1-131-416-00	→	→	1-131-409-00
2.2	1-131-424-00	—	1-131-419-00	—	1-131-414-00	1-131-355-00	1-131-349-00
3.3	—	1-131-422-00	—	1-131-417-00	1-131-362-00	1-131-356-00	1-131-350-00
4.7	1-131-425-00	—	1-131-420-00	1-131-369-00	1-131-363-00	1-131-357-00	1-131-351-00
6.8	—	1-131-423-00	1-131-376-00	1-131-370-00	1-131-364-00	1-131-358-00	1-131-352-00
10	1-131-426-00	1-131-383-00	1-131-377-00	1-131-371-00	1-131-365-00	1-131-359-00	1-131-353-00
15	1-131-390-00	1-131-384-00	1-131-378-00	1-131-372-00	1-131-366-00	1-131-360-00	—
22	1-131-391-00	1-131-385-00	1-131-379-00	1-131-373-00	1-131-367-00	—	—
33	1-131-392-00	1-131-386-00	1-131-380-00	1-131-374-00	—	—	—
47	1-131-393-00	1-131-387-00	1-131-381-00	—	—	—	—
68	1-131-394-00	1-131-388-00	—	—	—	—	—
100	1-131-395-00	—	—	—	—	—	—



TANTALUM CAPACITORS

RATING						
CAP. (μF)	3 VOLT.	6.3 VOLT.	10 VOLT.	16 VOLT.	20 VOLT.	35 VOLT.
PART No.	PART No.	PART No.	PART No.	PART No.	PART No.	PART No.
0.033	—	—	—	—	—	1-131-273-00
0.047	—	—	—	—	—	1-131-274-00
0.068	—	—	—	—	—	1-131-275-00
0.1	—	—	—	—	—	1-131-276-00
0.15	—	—	—	—	—	1-131-277-00
0.22	—	—	—	—	1-131-262-00	1-131-278-00
0.33	—	—	—	—	1-131-263-00	1-131-279-00
0.47	—	—	1-131-169-00	—	1-131-264-00	1-131-280-00
0.68	—	—	—	1-131-258-00	1-131-265-00	1-131-281-00
1.0	—	—	1-131-254-00	—	1-131-266-00	1-131-282-00
1.5	—	1-131-250-00	—	—	1-131-267-00	1-131-283-00
2.2	—	—	—	1-131-259-00	1-131-268-00	1-131-284-00
3.3	—	—	1-131-255-00	—	1-131-269-00	—
4.7	—	1-131-251-00	1-131-171-00	—	1-131-270-00	—
6.8	—	—	—	1-131-260-00	1-131-271-00	—
10	—	—	1-131-256-00	—	1-131-272-00	—
15	—	1-131-252-00	—	1-131-261-00	—	—
22	—	—	1-131-257-00	—	—	—
33	1-131-176-00	1-131-253-00	1-131-173-00	—	—	—
47	1-131-288-00	1-131-174-00	—	—	—	—
100	1-131-177-00	—	—	—	—	—

1/16 WATT CARBON RESISTOR

Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.
2.0	—	13	—	91	1-210-354-00	620	1-210-367-00	4.3k	1-209-772-00	30k	1-210-380-00	200k	1-210-839-00	—	—
2.2	—	15	—	100	1-210-355-00	680	1-210-106-00	4.7k	1-209-773-00	33k	1-210-381-00	220k	1-210-840-00	—	—
2.4	—	16	—	110	1-210-356-00	750	1-210-107-00	5.1k	1-209-774-00	36k	1-210-394-00	240k	—	—	—
2.7	—	18	1-211-688-00	120	1-210-357-00	820	1-210-108-00	5.6k	1-209-775-00	39k	1-210-382-00	270k	1-210-841-00	—	—
3.0	—	20	—	130	1-210-358-00	910	1-210-368-00	6.2k	1-209-776-00	43k	1-210-383-00	300k	—	—	—
3.3	—	22	—	150	1-210-102-00	1.0k	1-204-122-00	6.8k	1-209-777-00	47k	1-210-384-00	330k	1-210-842-00	—	—
3.6	—	24	—	160	1-210-359-00	1.1k	1-210-369-00	7.5k	1-209-778-00	51k	1-210-385-00	360k	—	—	—
3.9	—	27	—	180	1-210-360-00	1.2k	1-209-765-00	8.2k	1-209-779-00	56k	1-210-386-00	390k	1-210-843-00	—	—
4.3	—	30	1-210-845-00	200	1-210-361-00	1.3k	1-210-370-00	9.1k	1-209-780-00	62k	1-210-387-00	430k	—	—	—
4.7	—	33	1-210-846-00	220	1-210-362-00	1.5k	1-209-766-00	10k	1-209-781-00	68k	1-210-388-00	470k	1-210-844-00	—	—
5.1	—	36	1-210-847-00	240	1-209-762-00	1.6k	1-210-371-00	11k	1-210-374-00	75k	1-210-389-00	510k	—	—	—
5.6	—	39	1-210-848-00	270	1-210-363-00	1.8k	1-209-878-00	12k	1-210-111-00	82k	1-210-390-00	560k	1-211-695-00	—	—
6.2	—	43	1-210-849-00	300	1-210-364-00	2.0k	1-209-767-00	13k	1-210-375-00	91k	1-210-391-00	620k	—	—	—
6.8	—	47	1-210-395-00	330	1-209-763-00	2.2k	1-209-768-00	15k	1-210-112-00	100k	1-210-115-00	680k	1-211-696-00	—	—
7.5	—	51	1-210-101-00	360	1-210-103-00	2.4k	1-209-769-00	16k	1-210-376-00	110k	—	750k	—	—	—
8.2	—	56	1-210-351-00	390	1-210-365-00	2.7k	1-209-770-00	18k	1-210-113-00	120k	1-210-836-00	820k	1-211-698-00	—	—
9.1	—	62	1-210-352-00	430	1-210-366-00	3.0k	1-210-372-00	20k	1-210-377-00	130k	—	910k	—	—	—
10	—	68	1-210-353-00	470	1-209-764-00	3.3k	1-204-123-00	22k	1-210-114-00	150k	1-210-837-00	1 M	—	—	—
11	—	75	1-210-392-00	510	1-210-104-00	3.6k	1-210-373-00	24k	1-210-378-00	160k	—	—	—	—	—
12	—	82	1-210-393-00	560	1-210-105-00	3.9k	1-209-771-00	27k	1-210-379-00	180k	1-210-838-00	—	—	—	—

1/8 WATT CARBON RESISTOR

Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.
2.0	—	13	1-246-821-00	91	1-246-831-00	620	1-246-841-00	4.3k	1-246-851-00	30k	1-246-861-00	200k	1-246-871-00
2.2	1-246-751-00	15	1-246-761-00	100	1-246-771-00	680	1-246-781-00	4.7k	1-246-791-00	33k	1-246-801-00	220k	1-246-811-00
2.4	—	16	1-246-822-00	110	1-246-832-00	750	1-246-842-00	5.1k	1-246-852-00	36k	1-246-862-00	240k	1-247-054-00
2.7	1-246-752-00	18	1-246-762-00	120	1-246-772-00	820	1-246-782-00	5.6k	1-246-792-00	39k	1-246-802-00	270k	1-247-046-00
3.0	—	20	1-246-823-00	130	1-246-833-33	910	1-246-843-00	6.2k	1-246-853-00	43k	1-246-863-00	300k	1-247-055-00
3.3	1-246-753-00	22	1-246-763-00	150	1-246-773-00	1.0k	1-246-783-00	6.8k	1-246-793-00	47k	1-246-803-00	330k	1-247-047-00
3.6	—	24	1-246-824-00	160	1-246-834-00	1.1k	1-246-844-00	7.5k	1-246-854-00	51k	1-246-864-00	360k	1-247-056-00
3.9	1-246-754-00	27	1-246-764-00	180	1-246-774-00	1.2k	1-246-784-00	8.2k	1-246-794-00	56k	1-246-804-00	390k	1-247-048-00
4.3	—	30	1-246-825-00	200	1-246-835-00	1.3k	1-246-845-00	9.1k	1-246-855-00	62k	1-246-865-00	430k	1-247-057-00
4.7	1-246-755-00	33	1-246-765-00	220	1-246-775-00	1.5k	1-246-785-00	10k	1-246-795-00	68k	1-246-805-00	470k	1-247-049-00
5.1	—	36	1-246-826-00	240	1-246-836-00	1.6k	1-246-846-00	11k	1-246-856-00	75k	1-246-866-00	510k	1-247-058-00
5.6	1-246-756-00	39	1-246-766-00	270	1-246-776-00	1.8k	1-246-786-00	12k	1-246-796-00	82k	1-246-806-00	560k	1-247-050-00
6.2	—	43	1-246-827-00	300	1-246-837-00	2.0k	1-246-847-00	13k	1-246-857-00	91k	1-246-867-00	620k	1-247-059-00
6.8	1-246-757-00	47	1-246-767-00	330	1-246-777-00	2.2k	1-246-787-00	15k	1-246-797-00	100k	1-246-807-00	680k	1-247-051-00
7.5	1-246-818-00	51	1-246-828-00	360	1-246-838-00	2.4k	1-246-848-00	16k	1-246-858-00	110k	1-246-868-00	750k	1-247-060-00
8.2	1-246-758-00	56	1-246-768-00	390	1-246-778-00	2.7k	1-246-788-00	18k	1-246-798-00	120k	1-246-808-00	820k	1-247-052-00
9.1	1-246-819-00	62	1-246-829-00	430	1-246-839-00	3.0k	1-246-849-00	20k	1-246-859-00	130k	1-246-869-00	910k	1-247-061-00
10	1-246-759-00	68	1-246-769-00	470	1-246-779-00	3.3k	1-246-789-00	22k	1-246-799-00	150k	1-246-809-00	1 M	1-247-053-00
11	1-246-820-00	75	1-246-830-00	510	1-246-840-00	3.6k	1-246-850-00	24k	1-246-860-00	160k	1-246-870-00		
12	1-246-760-00	82	1-246-770-00	560	1-246-780-00	3.9k	1-246-790-00	27k	1-246-800-00	180k	1-246-810-00		

1/16 WATT CARBON RESISTOR

Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.
2.0	—	13	—	91	1-210-354-00	620	1-210-367-00	4.3k	1-209-772-00	30k	1-210-380-00
2.2	—	15	—	100	1-210-355-00	680	1-210-106-00	4.7k	1-209-773-00	33k	1-210-381-00
2.4	—	16	—	110	1-210-356-00	750	1-210-107-00	5.1k	1-209-774-00	36k	1-210-394-00
2.7	—	18	1-211-688-00	120	1-210-357-00	820	1-210-108-00	5.6k	1-209-775-00	39k	1-210-382-00
3.0	—	20	—	130	1-210-358-00	910	1-210-368-00	6.2k	1-209-776-00	43k	1-210-383-00
3.3	—	22	—	150	1-210-102-00	1.0k	1-204-122-00	6.8k	1-209-777-00	47k	1-210-384-00
3.6	—	24	—	160	1-210-359-00	1.1k	1-210-369-00	7.5k	1-209-778-00	51k	1-210-385-00
3.9	—	27	—	180	1-210-360-00	1.2k	1-209-765-00	8.2k	1-209-779-00	56k	1-210-386-00
4.3	—	30	1-210-845-00	200	1-210-361-00	1.3k	1-210-370-00	9.1k	1-209-780-00	62k	1-210-387-00
4.7	—	33	1-210-846-00	220	1-210-362-00	1.5k	1-209-766-00	10k	1-209-781-00	68k	1-210-388-00
5.1	—	36	1-210-847-00	240	1-209-762-00	1.6k	1-210-371-00	11k	1-210-374-00	75k	1-210-389-00
5.6	—	39	1-210-848-00	270	1-210-363-00	1.8k	1-209-878-00	12k	1-210-111-00	82k	1-210-390-00
6.2	—	43	1-210-849-00	300	1-210-364-00	2.0k	1-209-767-00	13k	1-210-375-00	91k	1-210-391-00
6.8	—	47	1-210-395-00	330	1-209-763-00	2.2k	1-209-768-00	15k	1-210-112-00	100k	1-210-115-00
7.5	—	51	1-210-101-00	360	1-210-103-00	2.4k	1-209-769-00	16k	1-210-376-00	110k	—
8.2	—	56	1-210-351-00	390	1-210-365-00	2.7k	1-209-770-00	18k	1-210-113-00	120k	1-210-836-00
9.1	—	62	1-210-352-00	430	1-210-366-00	3.0k	1-210-372-00	20k	1-210-377-00	130k	—
10	—	68	1-210-353-00	470	1-209-764-00	3.3k	1-204-123-00	22k	1-210-114-00	150k	1-210-837-00
11	—	75	1-210-392-00	510	1-210-104-00	3.6k	1-210-373-00	24k	1-210-378-00	160k	—
12	—	82	1-210-393-00	560	1-210-105-00	3.9k	1-209-771-00	27k	1-210-379-00	180k	1-210-838-00

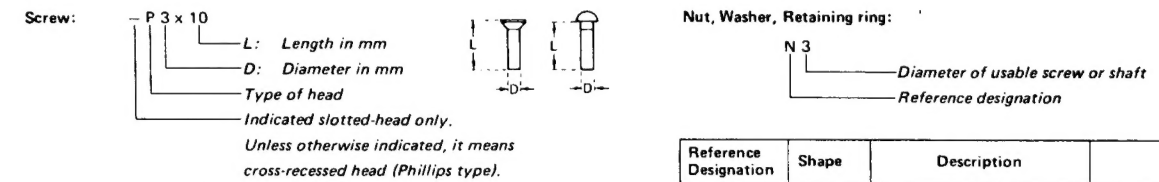
1/8 WATT CARBON RESISTOR

Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.
2.0	—	13	1-246-821-00	91	1-246-831-00	620	1-246-841-00	4.3k	1-246-851-00	30k	1-246-861-00
2.2	1-246-751-00	15	1-246-761-00	100	1-246-771-00	680	1-246-781-00	4.7k	1-246-791-00	33k	1-246-801-00
2.4	—	16	1-246-822-00	110	1-246-832-00	750	1-246-842-00	5.1k	1-246-852-00	36k	1-246-862-00
2.7	1-246-752-00	18	1-246-762-00	120	1-246-772-00	820	1-246-782-00	5.6k	1-246-792-00	39k	1-246-802-00
3.0	—	20	1-246-823-00	130	1-246-833-33	910	1-246-843-00	6.2k	1-246-853-00	43k	1-246-863-00
3.3	1-246-753-00	22	1-246-763-00	150	1-246-773-00	1.0k	1-246-783-00	6.8k	1-246-793-00	47k	1-246-803-00
3.6	—	24	1-246-824-00	160	1-246-834-00	1.1k	1-246-844-00	7.5k	1-246-854-00	51k	1-246-864-00
3.9	1-246-754-00	27	1-246-764-00	180	1-246-774-00	1.2k	1-246-784-00	8.2k	1-246-794-00	56k	1-246-804-00
4.3	—	30	1-246-825-00	200	1-246-835-00	1.3k	1-246-845-00	9.1k	1-246-855-00	62k	1-246-865-00
4.7	1-246-755-00	33	1-246-765-00	220	1-246-775-00	1.5k	1-246-785-00	10k	1-246-795-00	68k	1-246-805-00
5.1	—	36	1-246-826-00	240	1-246-836-00	1.6k	1-246-846-00	11k	1-246-856-00	75k	1-246-866-00
5.6	1-246-756-00	39	1-246-766-00	270	1-246-776-00	1.8k	1-246-786-00	12k	1-246-796-00	82k	1-246-806-00
6.2	—	43	1-246-827-00	300	1-246-837-00	2.0k	1-246-847-00	13k	1-246-857-00	91k	1-246-867-00
6.8	1-246-757-00	47	1-246-767-00	330	1-246-777-00	2.2k	1-246-787-00	15k	1-246-797-00	100k	1-246-807-00
7.5	1-246-818-00	51	1-246-828-00	360	1-246-838-00	2.4k	1-246-848-00	16k	1-246-858-00	110k	1-246-868-00
8.2	1-246-758-00	56	1-246-768-00	390	1-246-778-00	2.7k	1-246-788-00	18k	1-246-798-00	120k	1-246-808-00
9.1	1-246-819-00	62	1-246-829-00	430	1-246-839-00	3.0k	1-246-849-00	20k	1-246-859-00	130k	1-246-869-00
10	1-246-759-00	68	1-246-769-00	470	1-246-779-00	3.3k	1-246-789-00	22k	1-246-799-00	150k	1-246-809-00
11	1-246-820-00	75	1-246-830-00	510	1-246-840-00	3.6k	1-246-850-00	24k	1-246-860-00	160k	1-246-870-00
12	1-246-760-00	82	1-246-770-00	560	1-246-780-00	3.9k	1-246-790-00	27k	1-246-800-00	180k	1-246-810-00

1/4 WATT CARBON RESISTORS

Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.
1.0	1-246-401-00	10	1-246-425-00	100	1-246-449-00	1.0k	1-246-473-00	10k	1-246-497-00	100k	1-246-521-00
1.1	1-246-402-00	11	1-246-426-00	110	1-246-450-00	1.1k	1-246-474-00	11k	1-246-498-00	110k	1-246-522-00
1.2	1-246-403-00	12	1-246-427-00	120	1-246-451-00	1.2k	1-246-475-00	12k	1-246-499-00	120k	1-246-523-00
1.3	1-246-404-00	13	1-246-428-00	130	1-246-452-00	1.3k	1-246-476-00	13k	1-246-500-00	130k	1-246-524-00
1.5	1-246-405-00	15	1-246-429-00	150	1-246-453-00	1.5k	1-246-477-00	15k	1-246-501-00	150k	1-246-525-00
1.6	1-246-406-00	16	1-246-430-00	160	1-246-454-00	1.6k	1-246-478-00	16k	1-246-502-00	160k	1-246-526-00
1.8	1-246-407-00	18	1-246-431-00	180	1-246-455-00	1.8k	1-246-479-00	18k	1-246-503-00	180k	1-246-527-00
2.0	1-246-408-00	20	1-246-432-00	200	1-246-456-00	2.0k	1-246-480-00	20k	1-246-504-00	200k	1-246-528-00
2.2	1-246-409-00	22	1-246-433-00	220	1-246-457-00	2.2k	1-246-481-00	22k	1-246-505-00	220k	1-246-529-00
2.4	1-246-410-00	24	1-246-434-00	240	1-246-458-00	2.4k	1-246-482-00	24k	1-246-506-00	240k	1-246-530-00
2.7	1-246-411-00	27	1-246-435-00	270	1-246-459-00	2.7k	1-246-483-00	27k	1-246-507-00	270k	1-246-531-00
3.0	1-246-412-00	30	1-246-436-00	300	1-246-460-00	3.0k	1-246-484-00	30k	1-246-508-00	300k	1-246-532-00
3.3	1-246-413-00	33	1-246-437-00	330	1-246-461-00	3.3k	1-246-485-00	33k	1-246-509-00	330k	1-246-533-00
3.6	1-246-414-00	36	1-246-438-00	360	1-246-462-00	3.6k	1-246-486-00	36k	1-246-510-00	360k	1-246-534-00
3.9	1-246-415-00	39	1-246-439-00	390	1-246-463-00	3.9k	1-246-487-00	39k	1-246-511-00	390k	1-246-535-00
4.3	1-246-416-00	43	1-246-440-00	430	1-246-464-00	4.3k	1-246-488-00	43k	1-246-512-00	430k	1-246-536-00
4.7	1-246-417-00	47	1-246-441-00	470	1-246-465-00	4.7k	1-246-489-00	47k	1-246-513-00	470k	1-246-537-00
5.1	1-246-418-00	51	1-246-442-00	510	1-246-466-00	5.1k	1-246-490-00	51k	1-246-514-00	510k	1-246-538-00
5.6	1-246-419-00	56	1-246-443-00	560	1-246-467-00	5.6k	1-246-491-00	56k	1-246-515-00	560k	1-246-539-00
6.2	1-246-420-00	62	1-246-444-00	620	1-246-468-00	6.2k	1-246-492-00	62k	1-246-516-00	620k	1-246-540-00
6.8	1-246-421-00	68	1-246-445-00	680	1-246-469-00	6.8k	1-246-493-00	68k	1-246-517-00	680k	1-246-541-00
7.5	1-246-422-00	75	1-246-446-00	750	1-246-470-00	7.5k	1-246-494-00	75k	1-246-518-00	750k	1-246-542-00
8.2	1-246-423-00	82	1-246-447-00	820	1-246-471-00	8.2k	1-246-495-00	82k	1-246-519-00	820k	1-246-543-00
9.1	1-246-424-00	91	1-246-448-00	910	1-246-472-00	9.1k	1-246-496-00	91k	1-246-520-00	910k	1-246-544-00

HARDWARE NOMENCLATURE



Reference Designation	Shape	Description	Remarks
SCREWS			
P		pan-head screw	binding-head (B) screw for replacement
PWH		pan-head screw with washer face	binding-head (B) screw and flat washer for replacement
PS		pan-head screw with spring washer	binding-head (B) screw and spring washer for replacement
PSP		pan-head screw with spring washer	binding-head (B) screw and spring washer for replacement
PSW		pan-head screw with spring and flat washers	binding-head (B) screw and spring and flat washers for replacement
PSPW		pan-head screw with spring and flat washers	binding-head (B) screw and spring and flat washers for replacement
R		round-head screw	binding-head (B) screw for replacement
K		flat-countersunk-head screw	
RK		oval-countersunk-head screw	
B		binding-head screw	
T		truss-head screw	binding-head (B) screw for replacement
F		flat-fillister-head screw	
RF		fillister-head screw	
BV		brazer-head screw	

Reference Designation	Shape	Description	Remarks
SELF-TAPPING SCREWS			
TA		self-tapping screw	ex: TA, P 3 x 10
PTP		pan-head self-tapping screw	binding-head self-tapping (TA, B) screw for replacement
PTPWH		pan-head self-tapping screw with washer face	binding-head self-tapping (TA, B) screw and flat washer for replacement
PTTWH		pan-head thread-rolling screw with washer face	binding-head (B) screw and flat washer for replacement
SET SCREWS			
SC		set screw	
SC		hexagon-socket set screw	ex: SC 2.6 x 4, hexagon socket
NUT			
N		nut	
WASHERS			
W		flat washer	
SW		spring washer	
LW		internal-tooth lock washer	ex: LW3, internal
LW		external-tooth lock washer	ex: LW3, external
RETAINING RINGS			
E		retaining ring	
G		grip-type retaining ring	

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